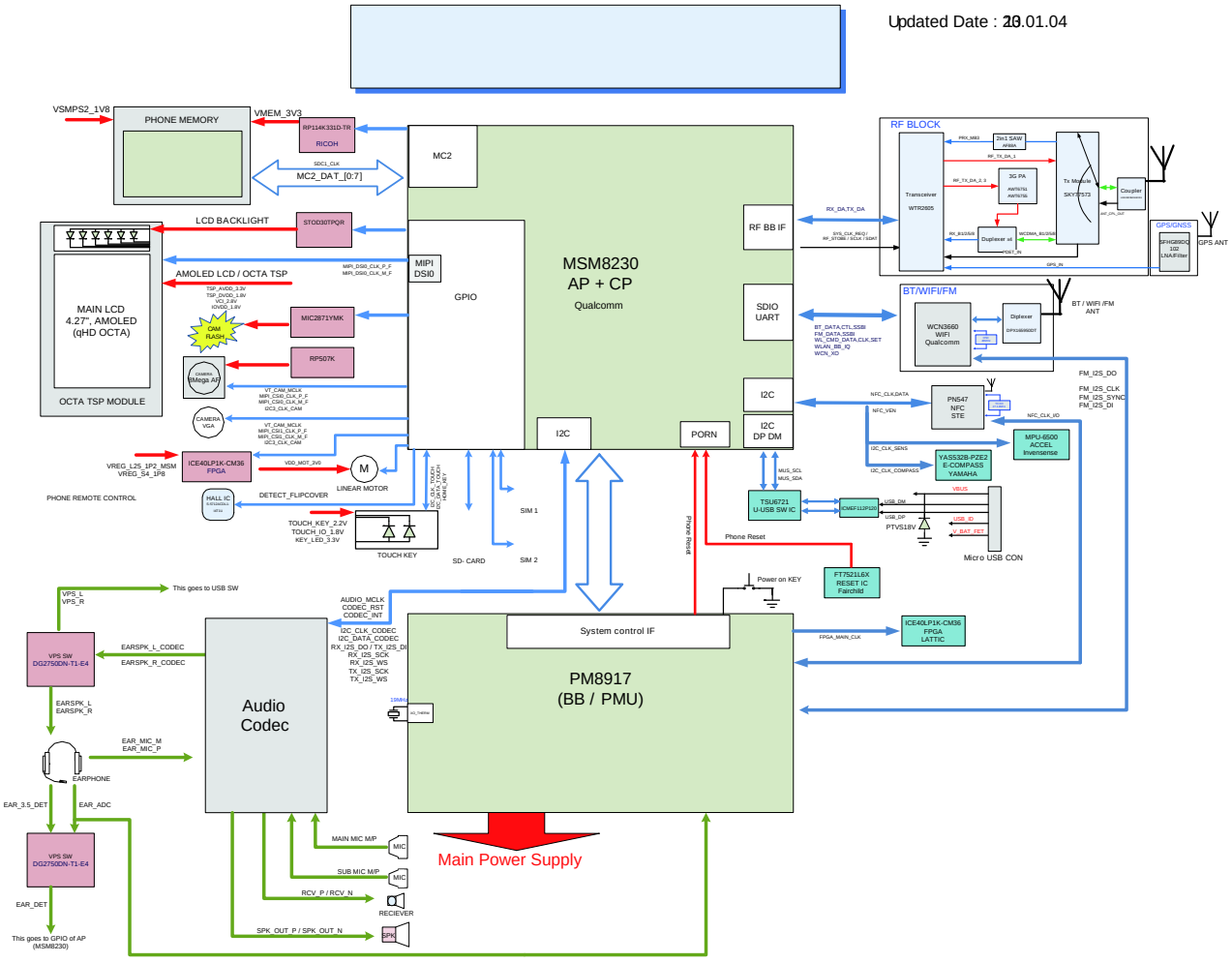
# 8. Level 3 Repair

## 8-1. Block Diagram



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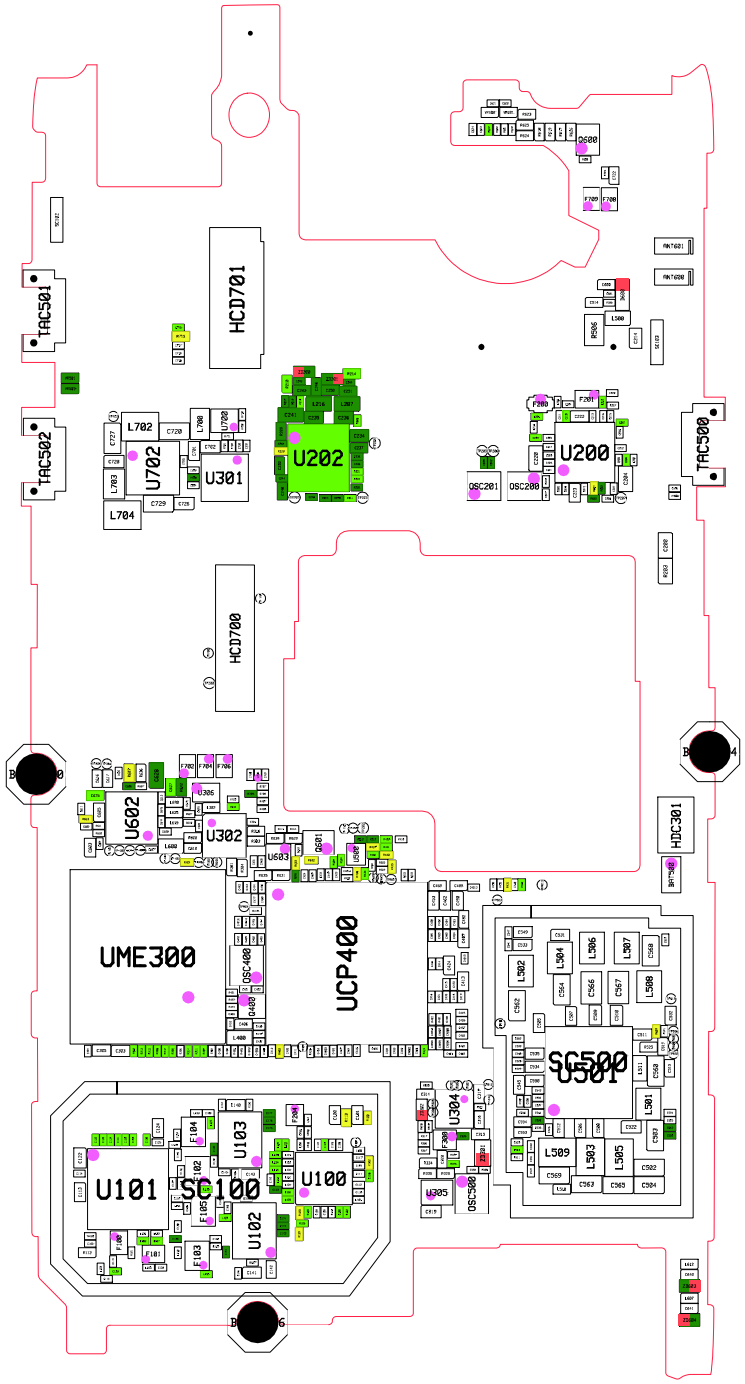
## 8-2. PCB Diagrams

### 8-2-1. Top



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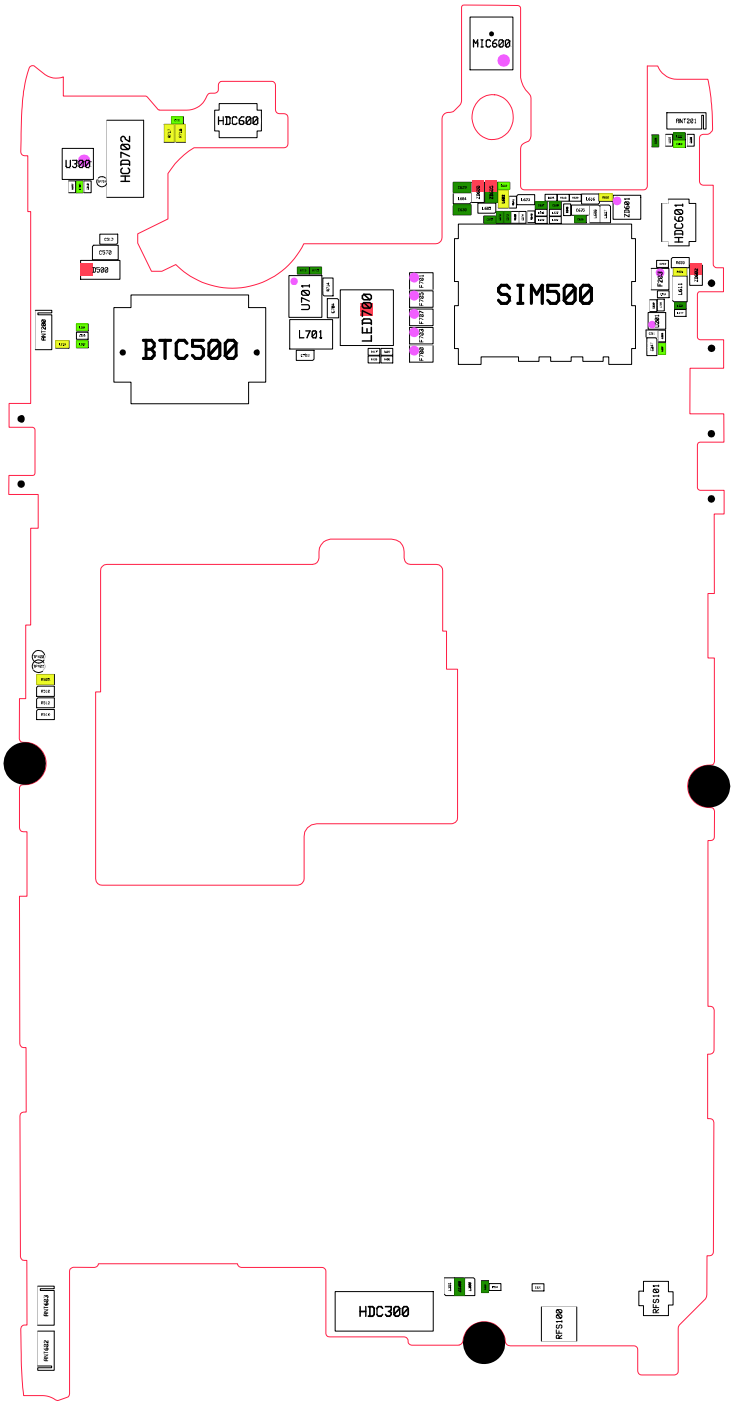
## 8-2-2. Bottom



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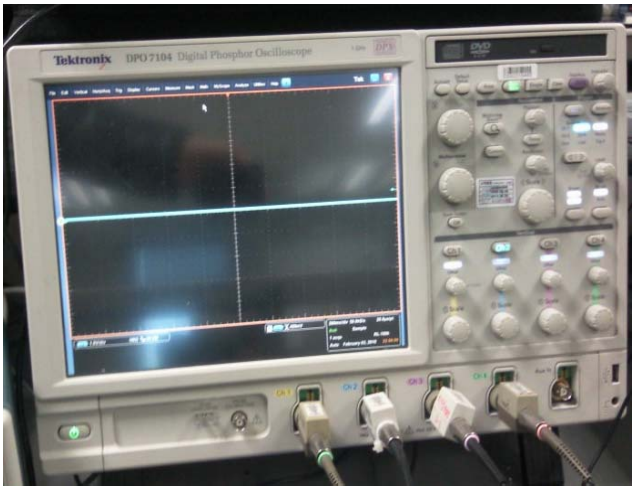
## 8-3. Flow Chart of Troubleshooting

### Equipments

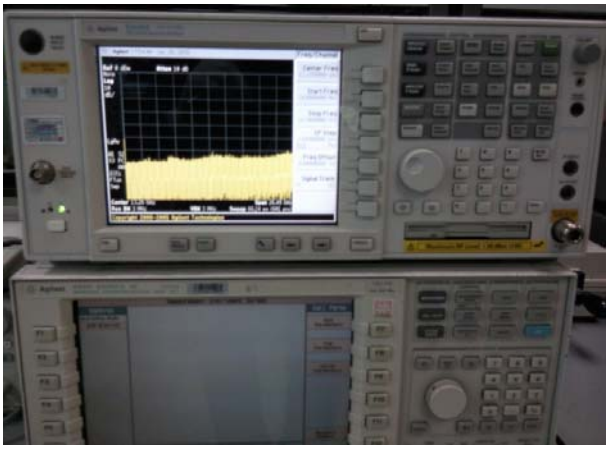



↑ Oscilloscope

↑ Digital Multi-meter

↑ Power Supply

↑ + driver, ESD Safe Tweezer



↑ 8960 & Spectrum Analyzer

↑ Soldering iron



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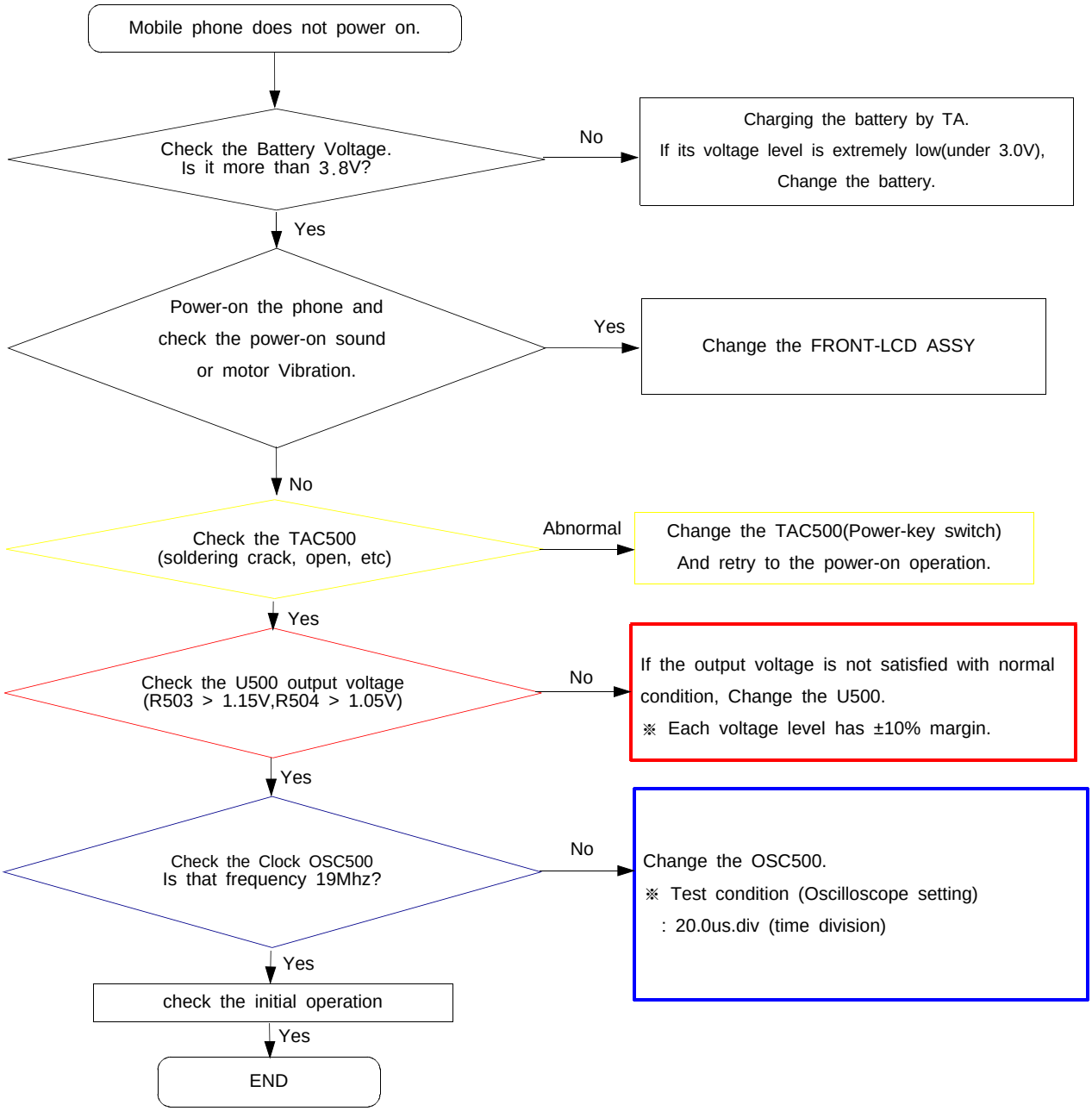
## 8-3-1. Power On



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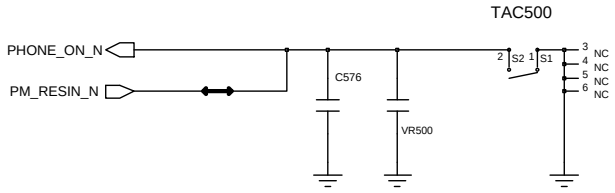
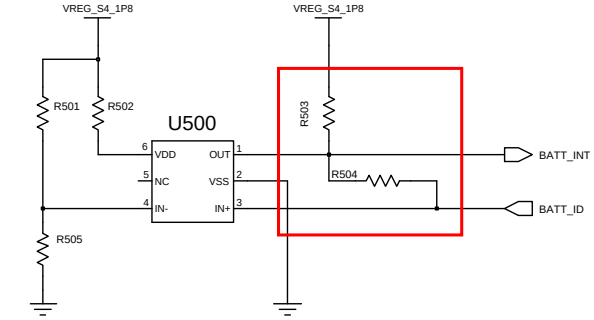
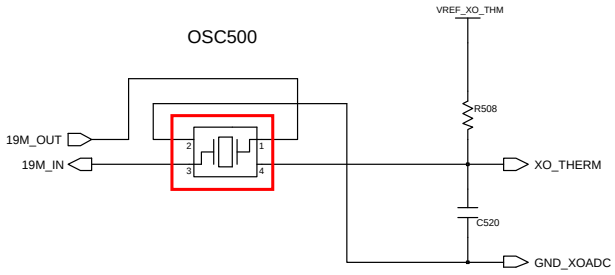
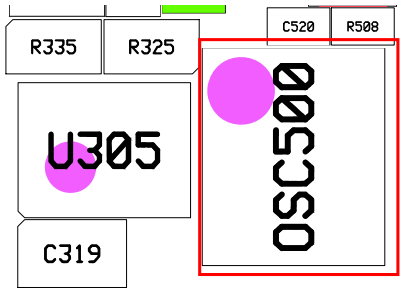



POWER KEY




19MHz



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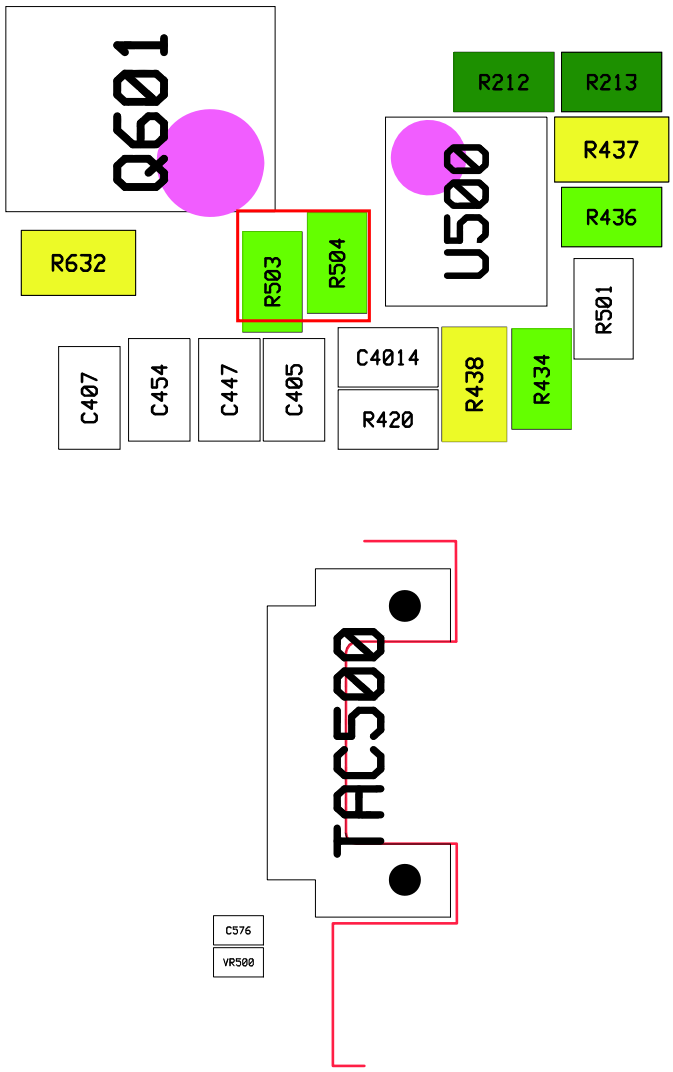




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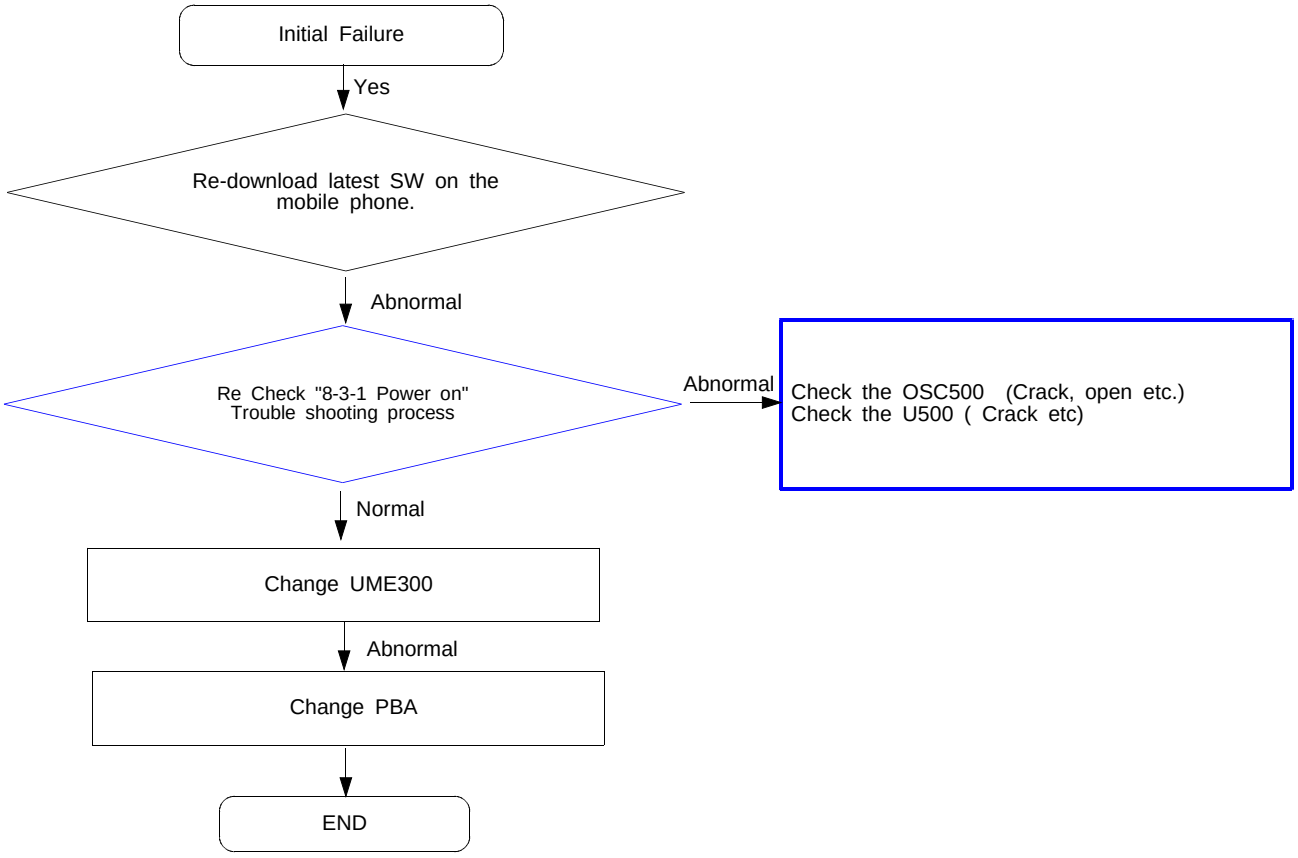
## 8-3-2. Initial



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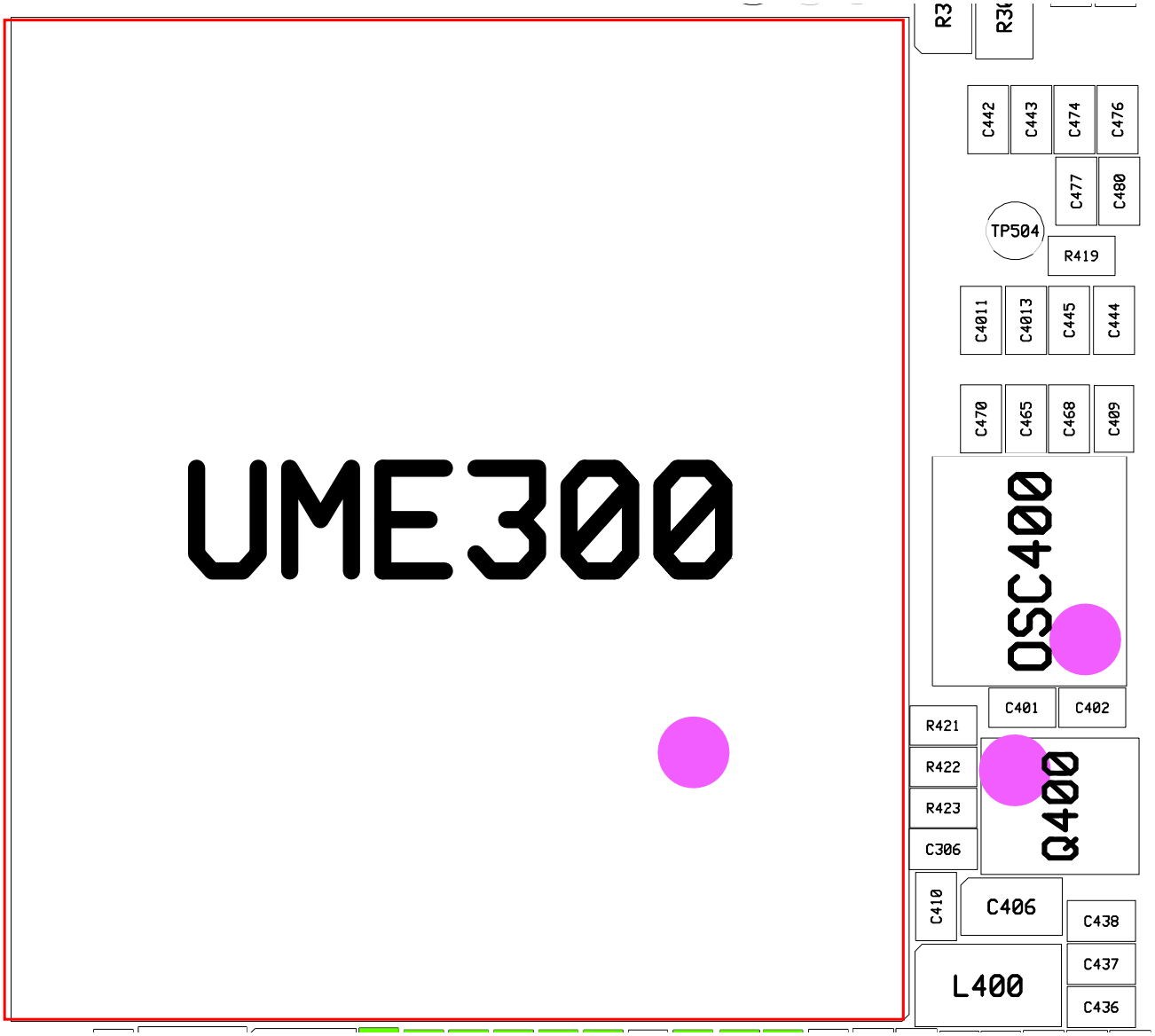




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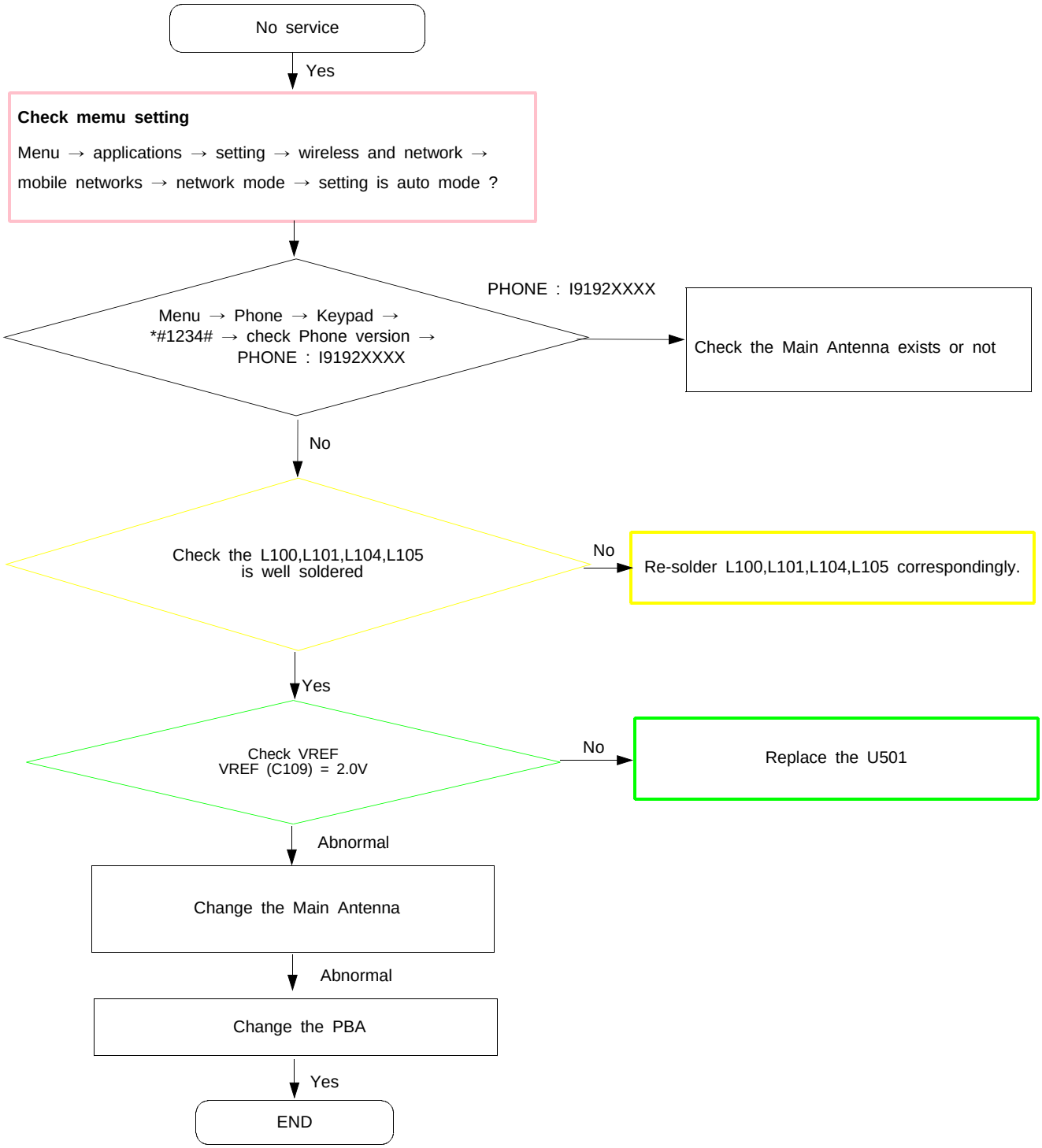
## 8-3-3. No Service


No service
Yes
Check memu setting
Menu → applications → setting → wireless and network → mobile networks → network mode → setting is auto mode ?
Menu → Phone → Keypad → *#1234# → check Phone version → PHONE : I9192XXXX
PHONE : I9192XXXX
Check the Main Antenna exists or not
No
Check the L100,L101,L104,L105 is well soldered
No
Re-solder L100,L101,L104,L105 correspondingly.
Yes
Check VREF VREF (C109) = 2.0V
No
Replace the U501
Abnormal
Change the Main Antenna
Abnormal
Change the PBA
Yes
END



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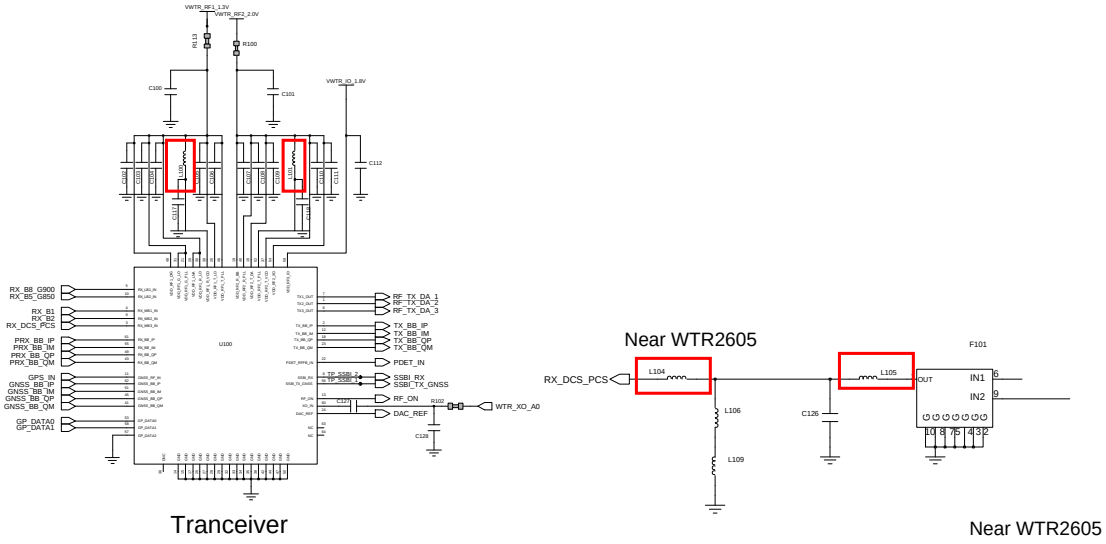


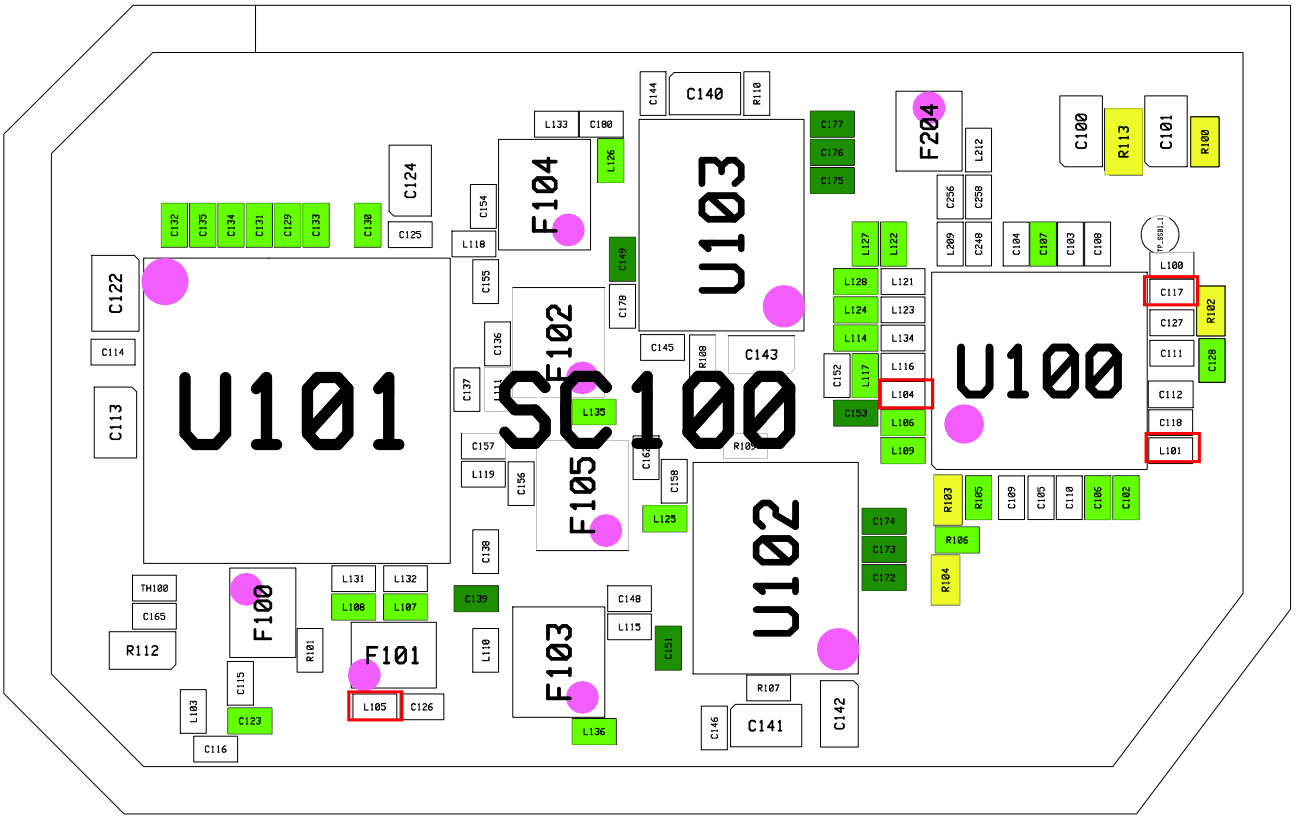




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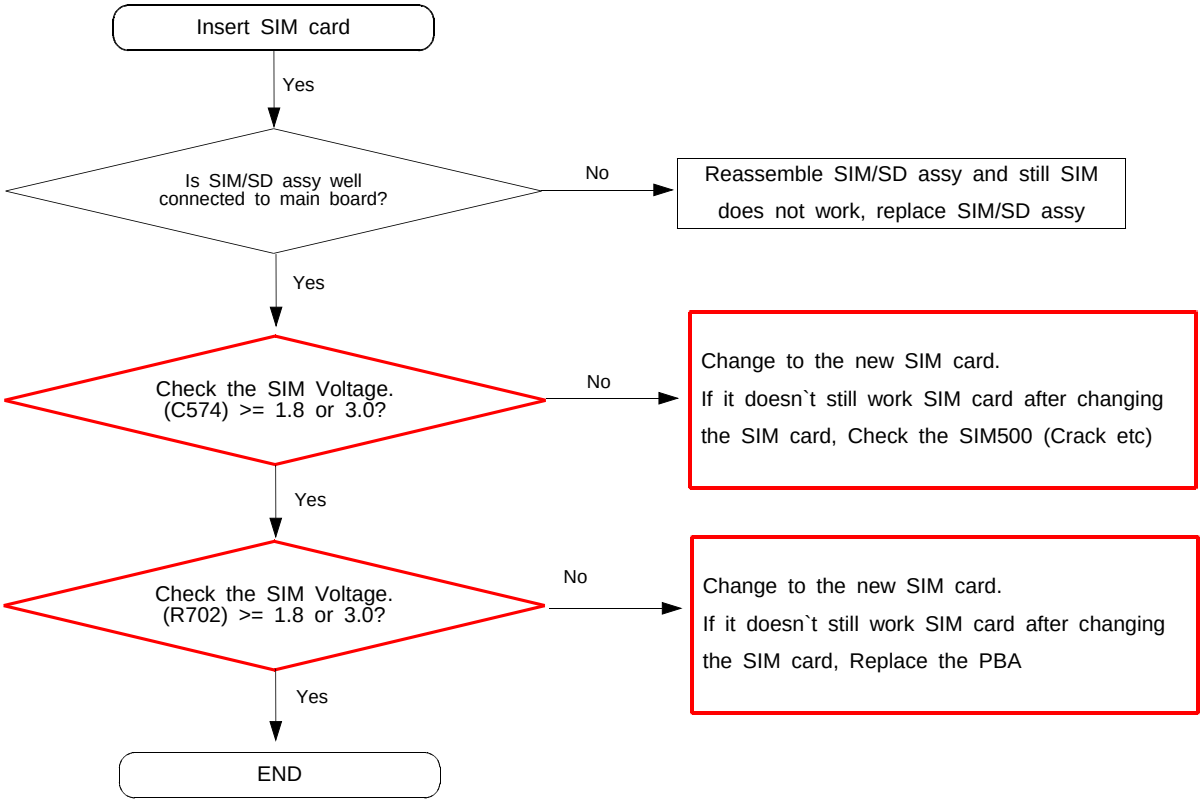
## 8-3-4. Sim Part


Insert SIM card
Yes
Is SIM/SD assy well connected to main board?
No
Reassemble SIM/SD assy and still SIM does not work, replace SIM/SD assy
Yes
Check the SIM Voltage. (C574) >= 1.8 or 3.0?
No
Change to the new SIM card. If it doesn`t still work SIM card after changing the SIM card, Check the SIM500 (Crack etc)
Yes
Check the SIM Voltage. (R702) >= 1.8 or 3.0?
No
Change to the new SIM card. If it doesn`t still work SIM card after changing the SIM card, Replace the PBA
Yes
END



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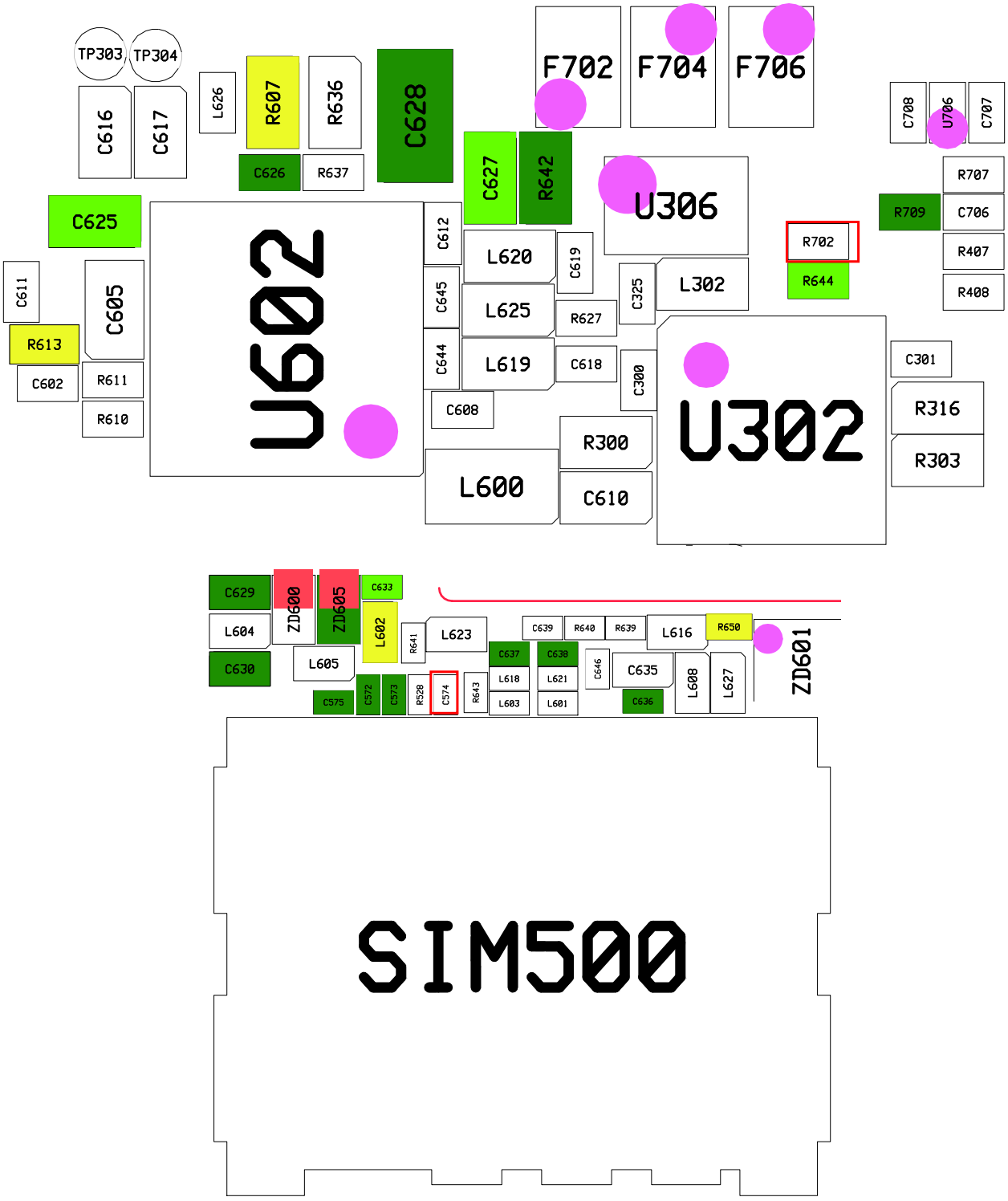




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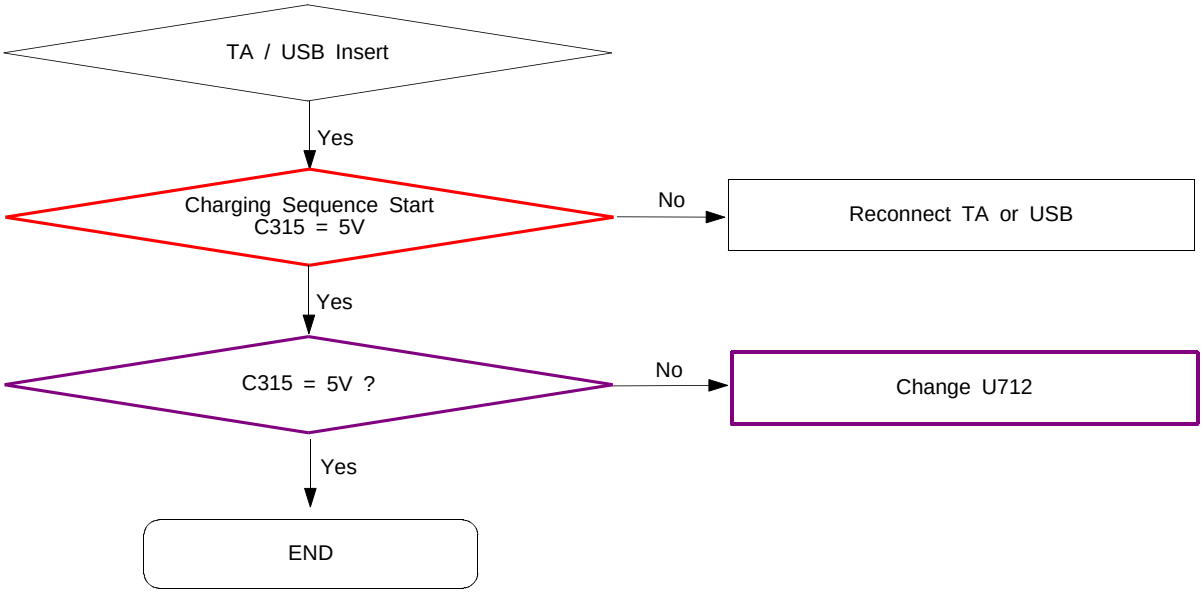
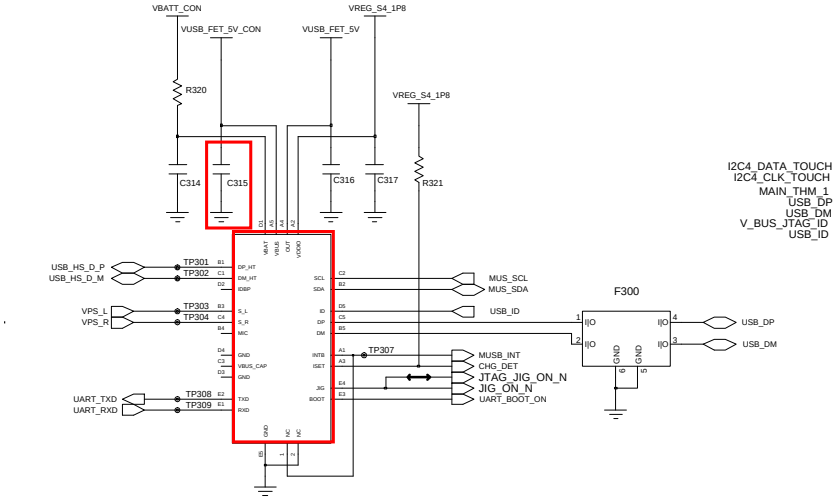
## 8-3-5. Charging Part




Micro-USB Switch



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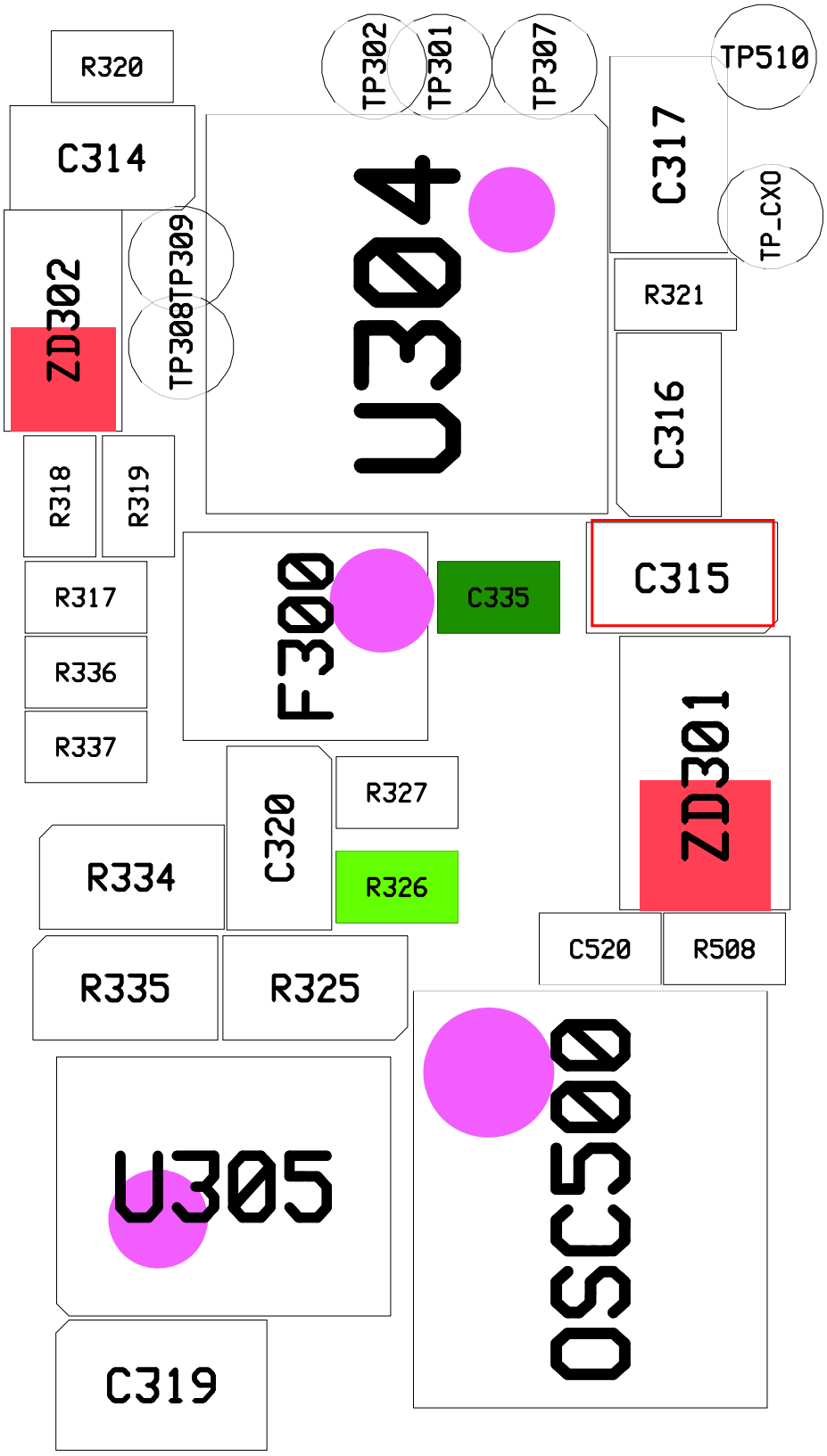




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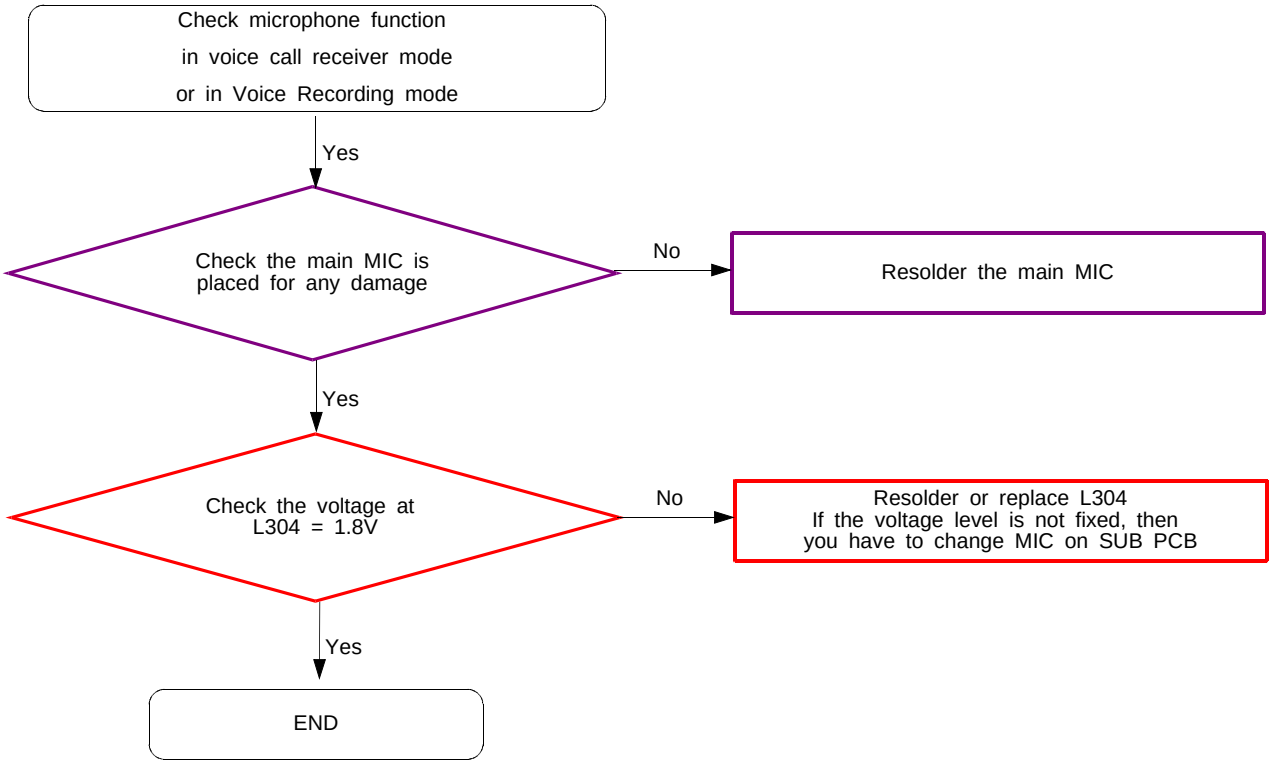
## 8-3-6. Microphone Part



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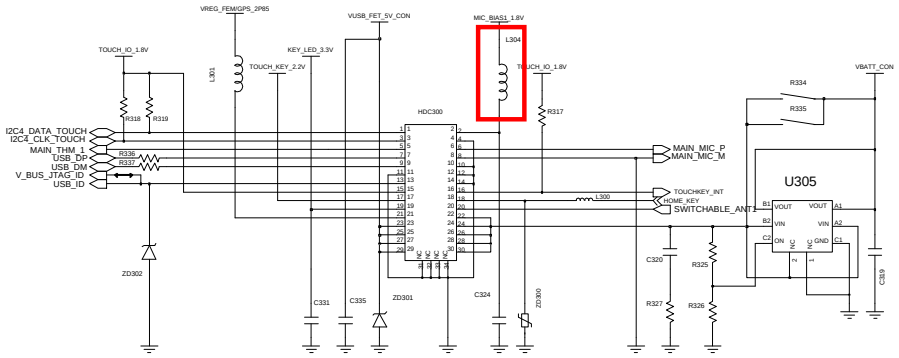
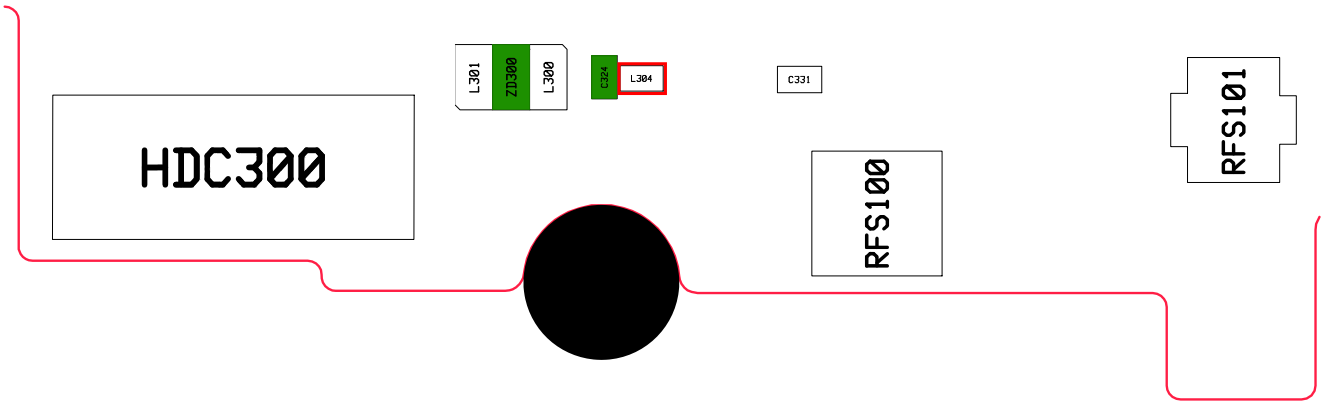



TK&IF&MAIN MIC. Connector



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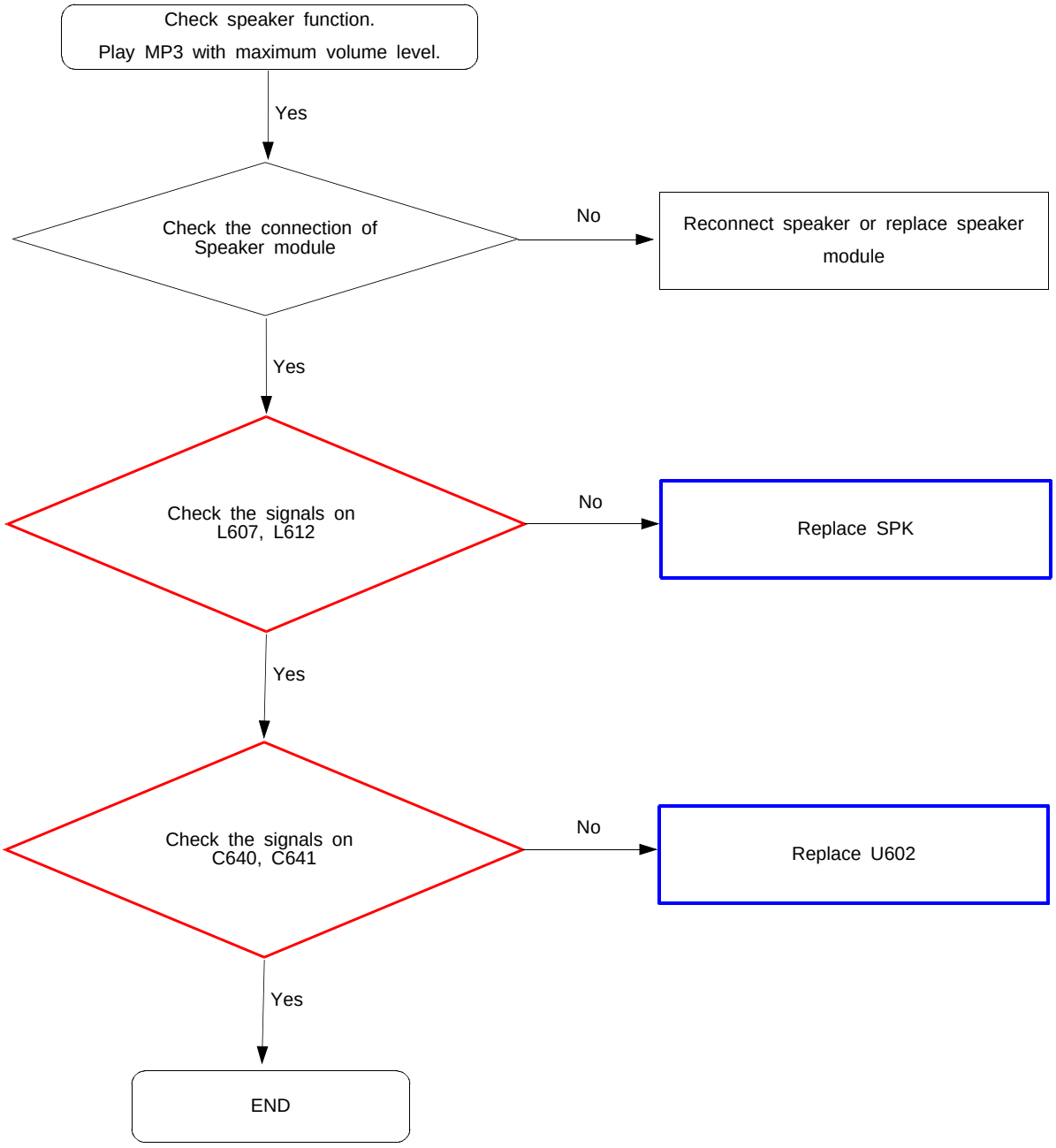
## 8-3-7. Speaker Part



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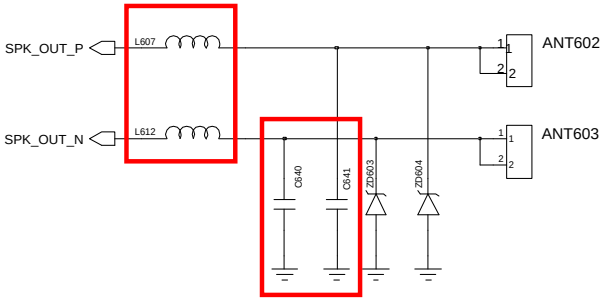
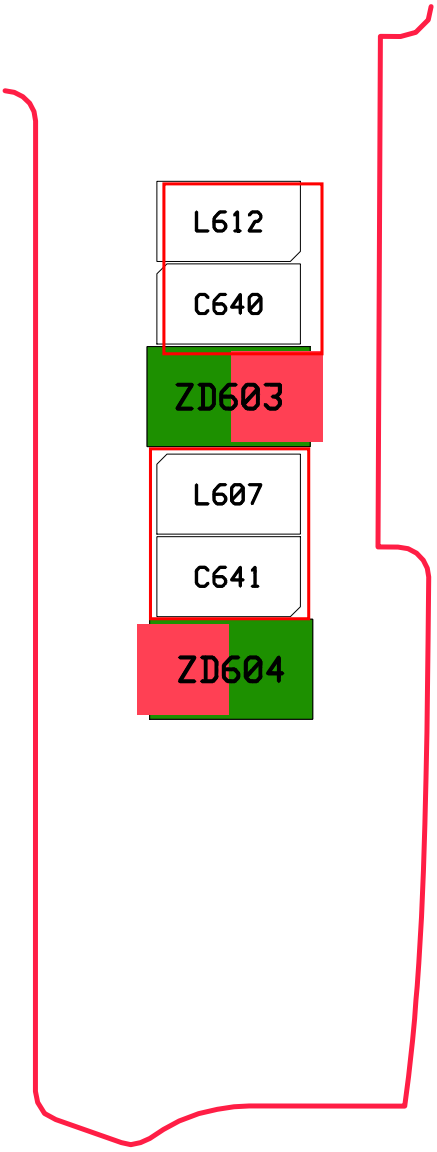



SPK



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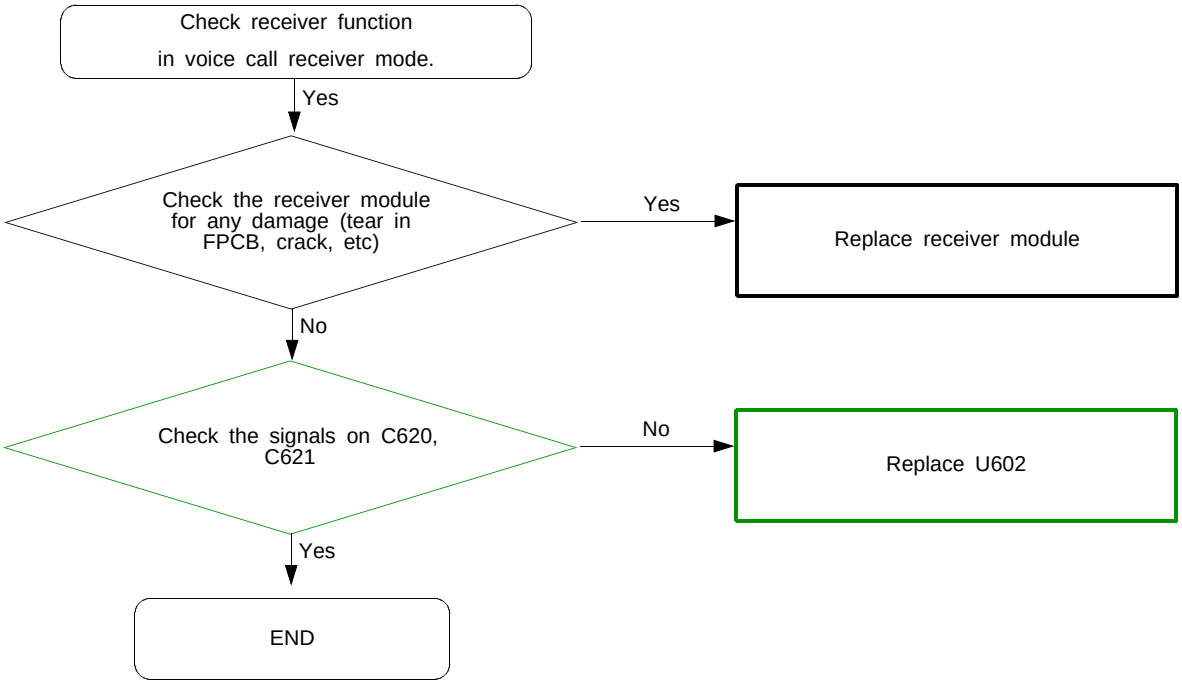
## 8-3-8 Receiver Part



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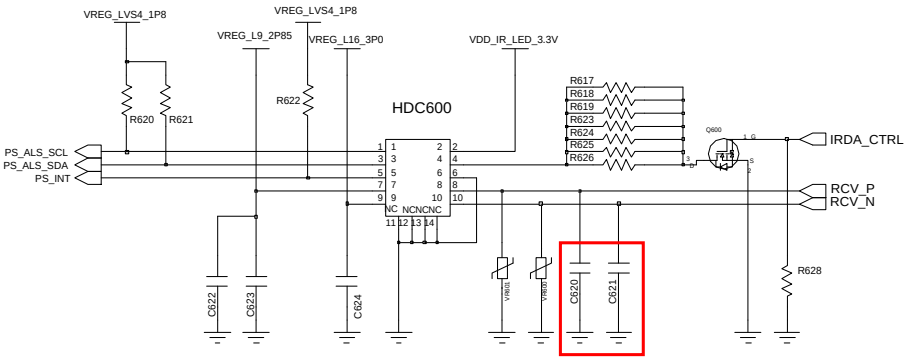


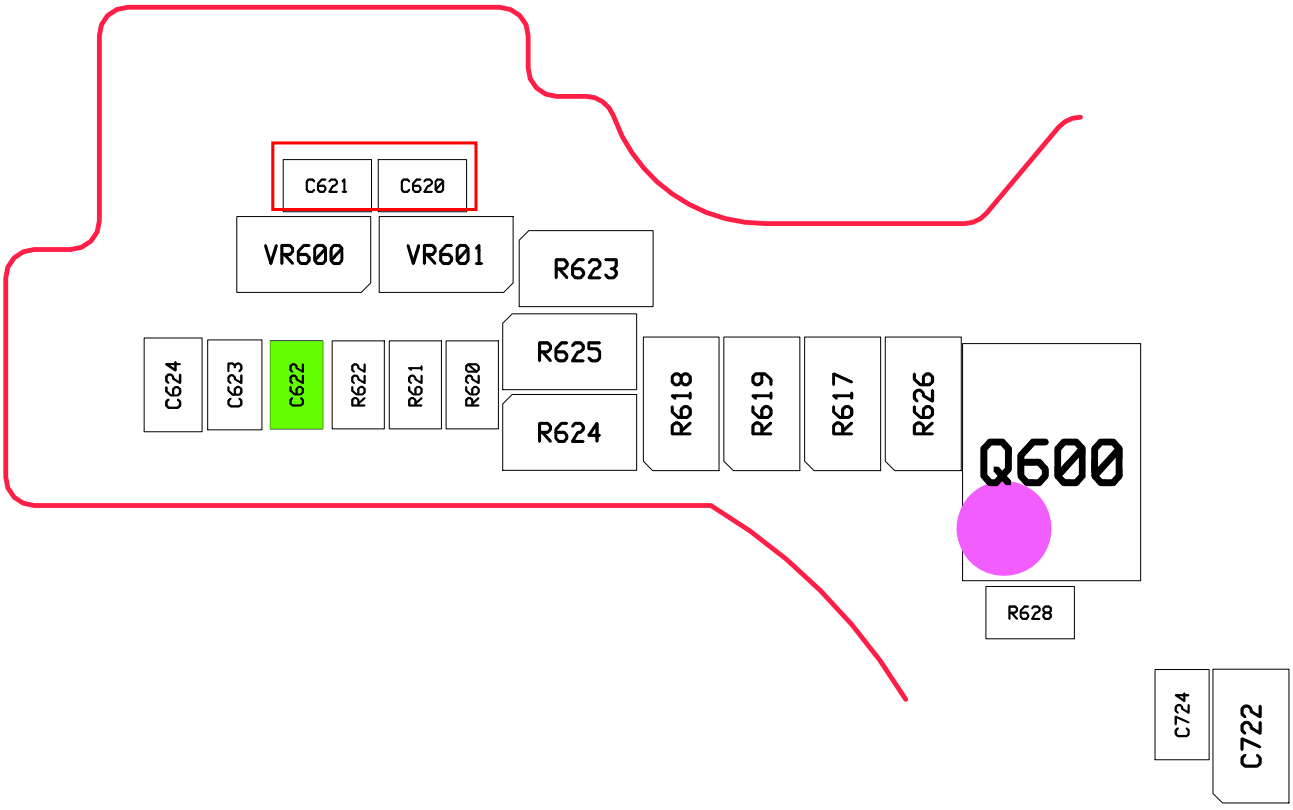




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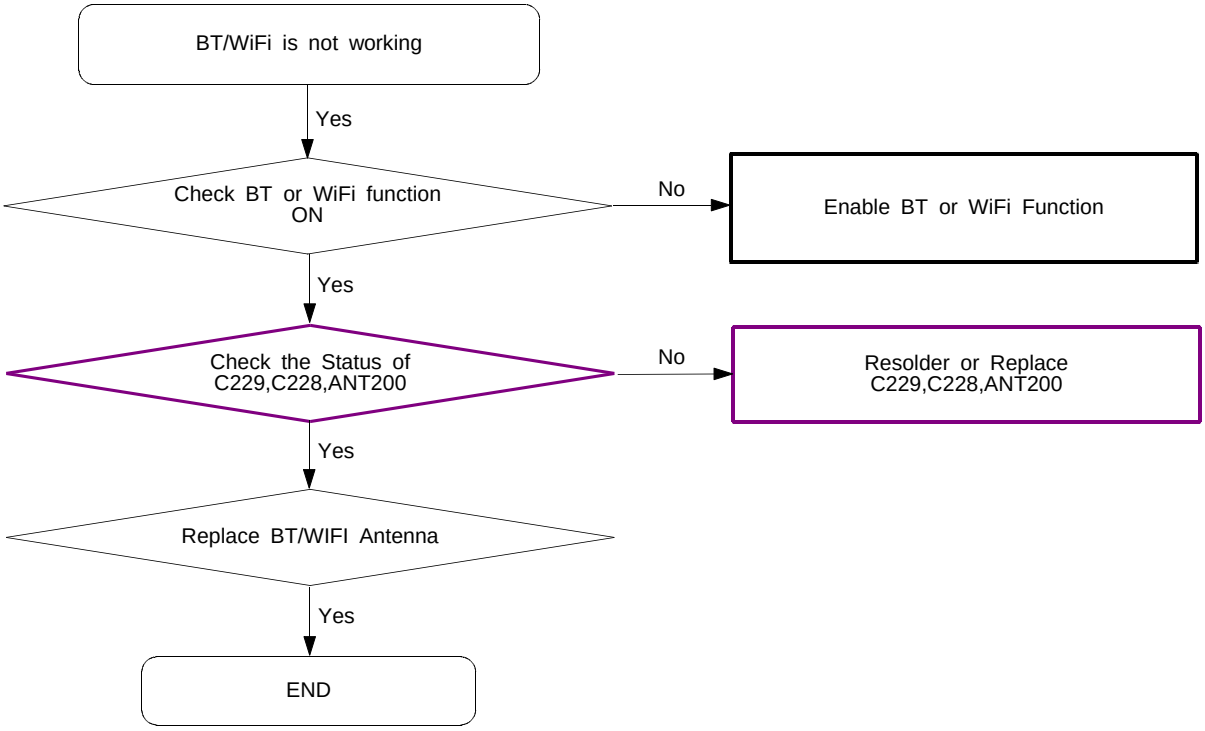
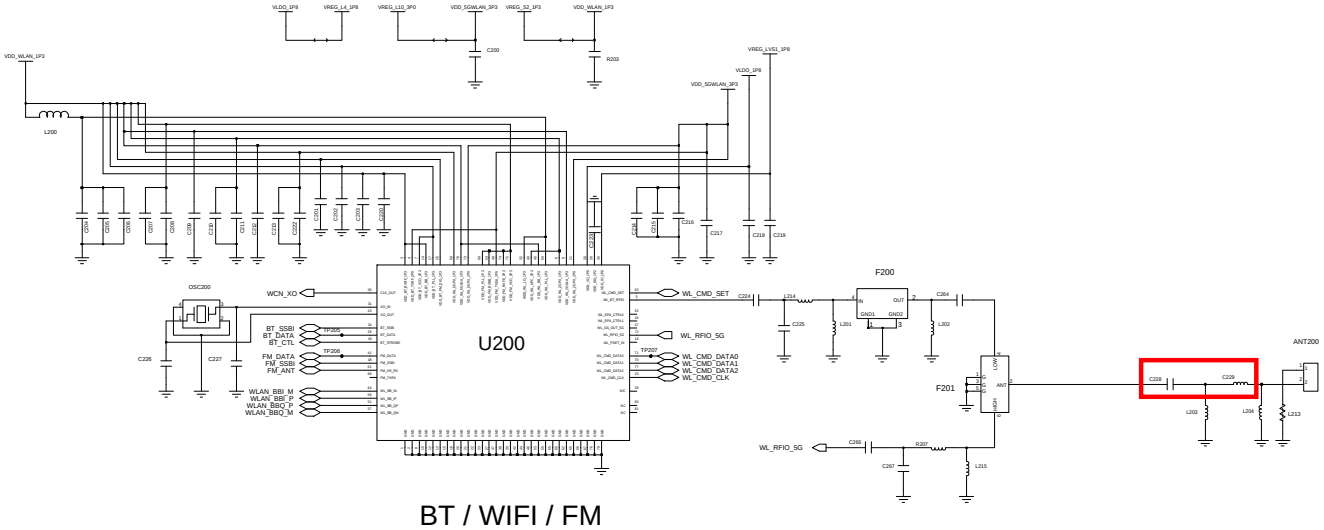
## 8-3-9. BT/WIFI




BT / WIFI / FM



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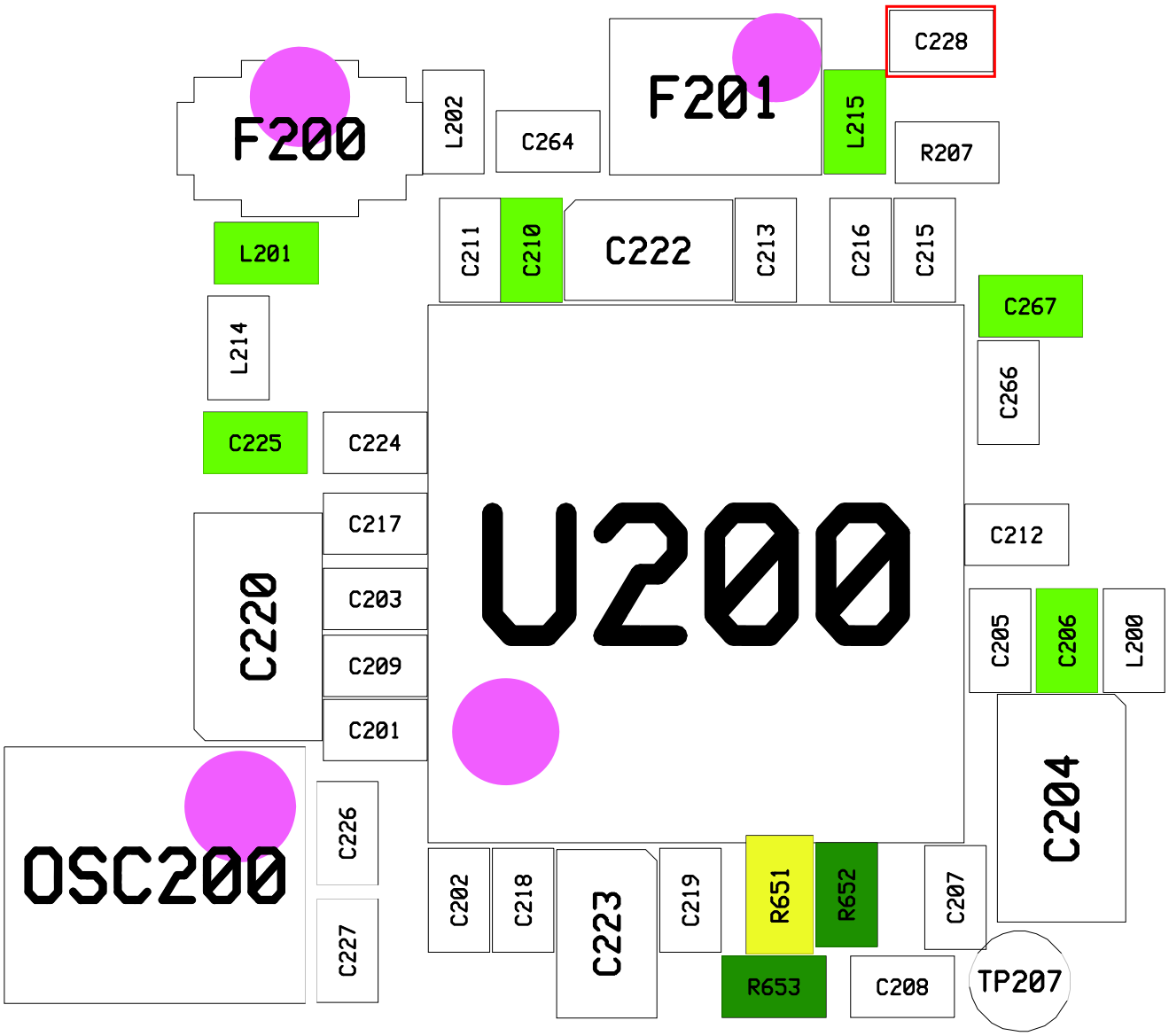




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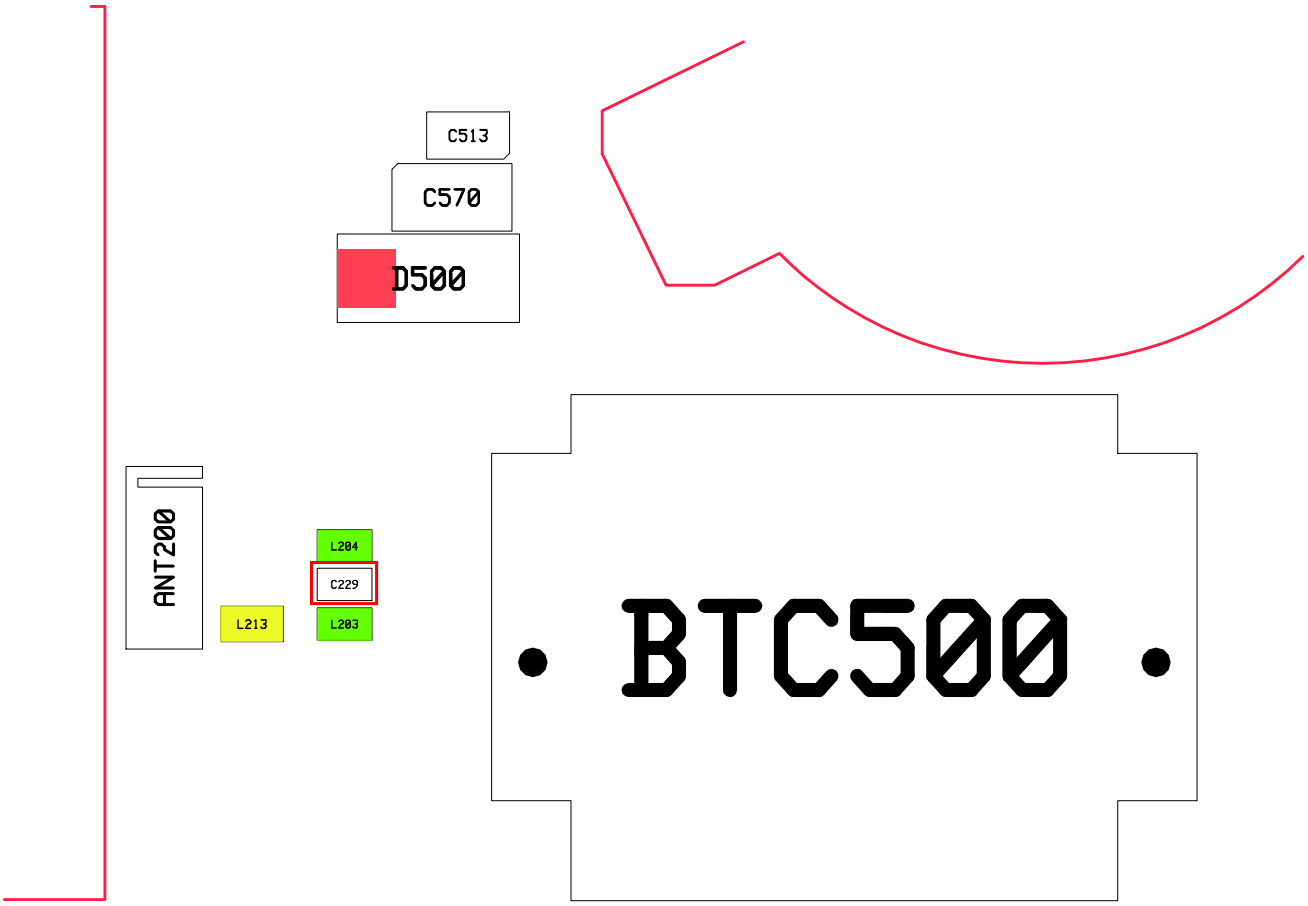




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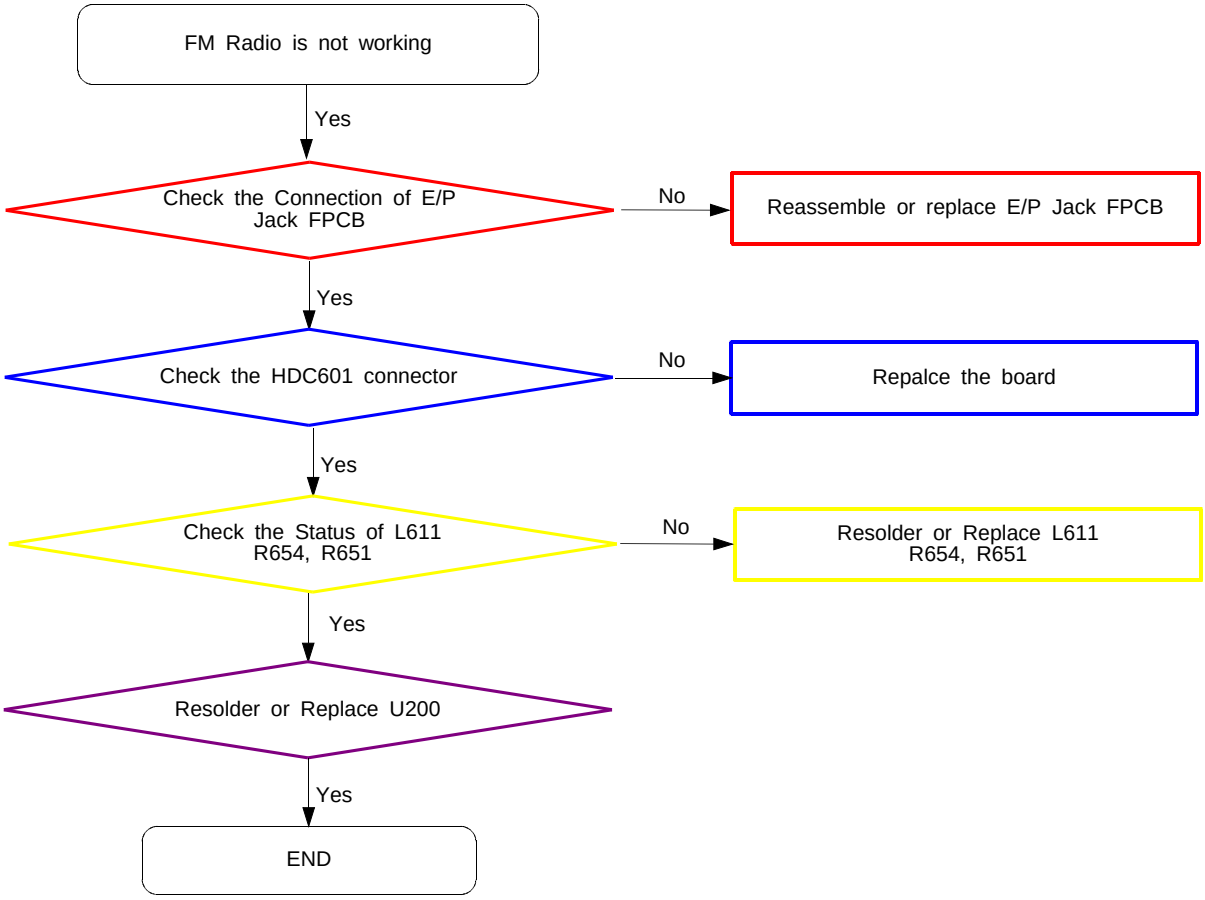
## 8-3-10. FM RADIO



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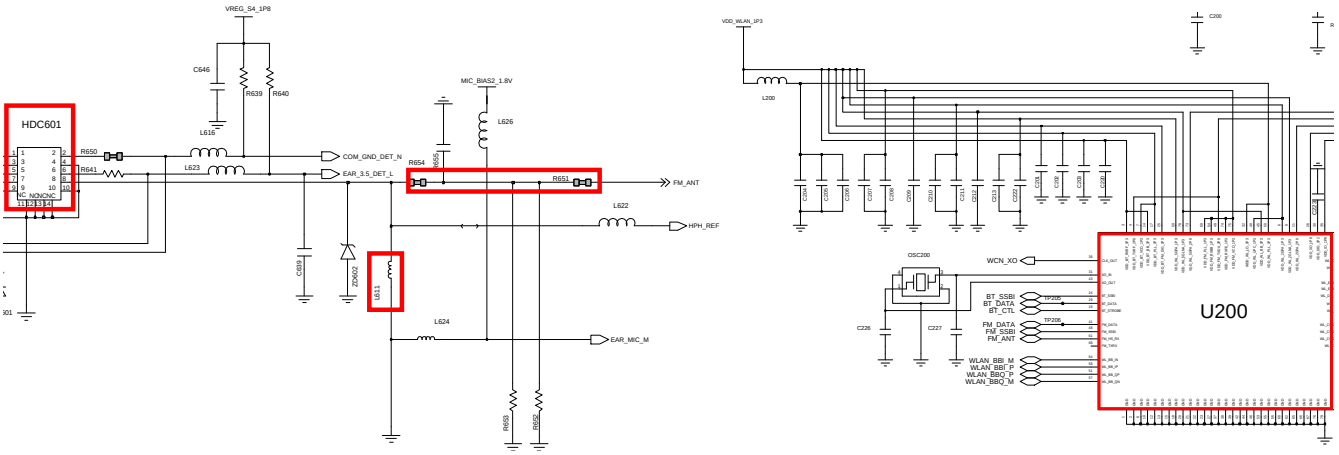

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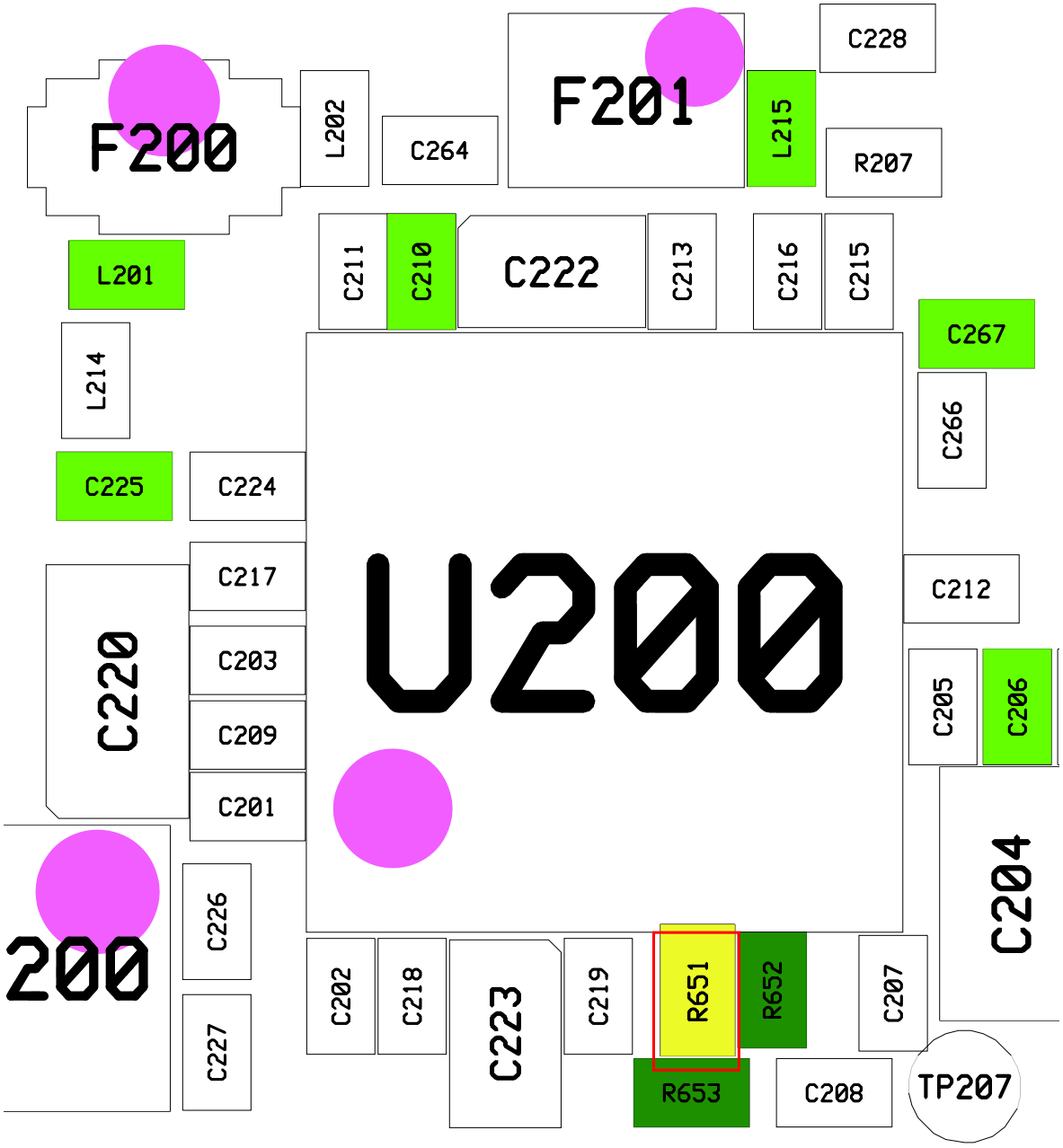




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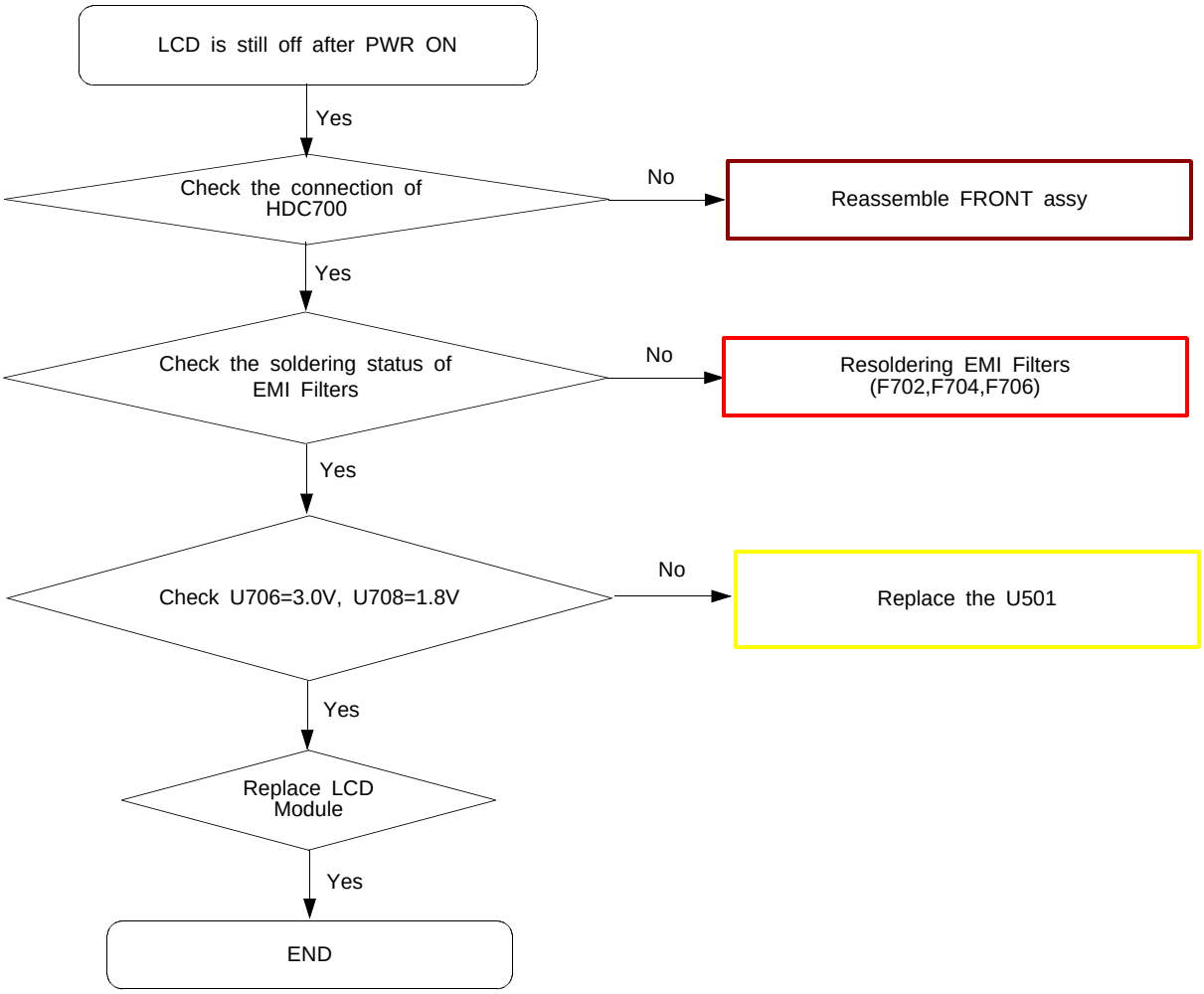
## 8-3-11. OCTA



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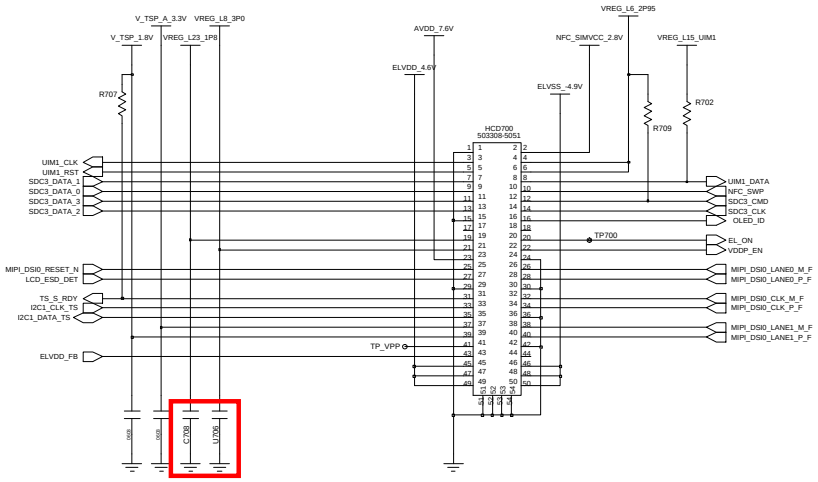
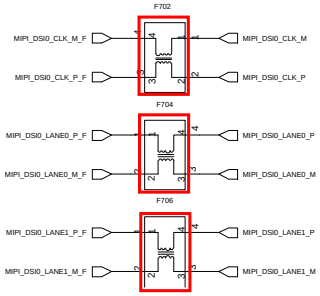



# 4.3" OCTA CON



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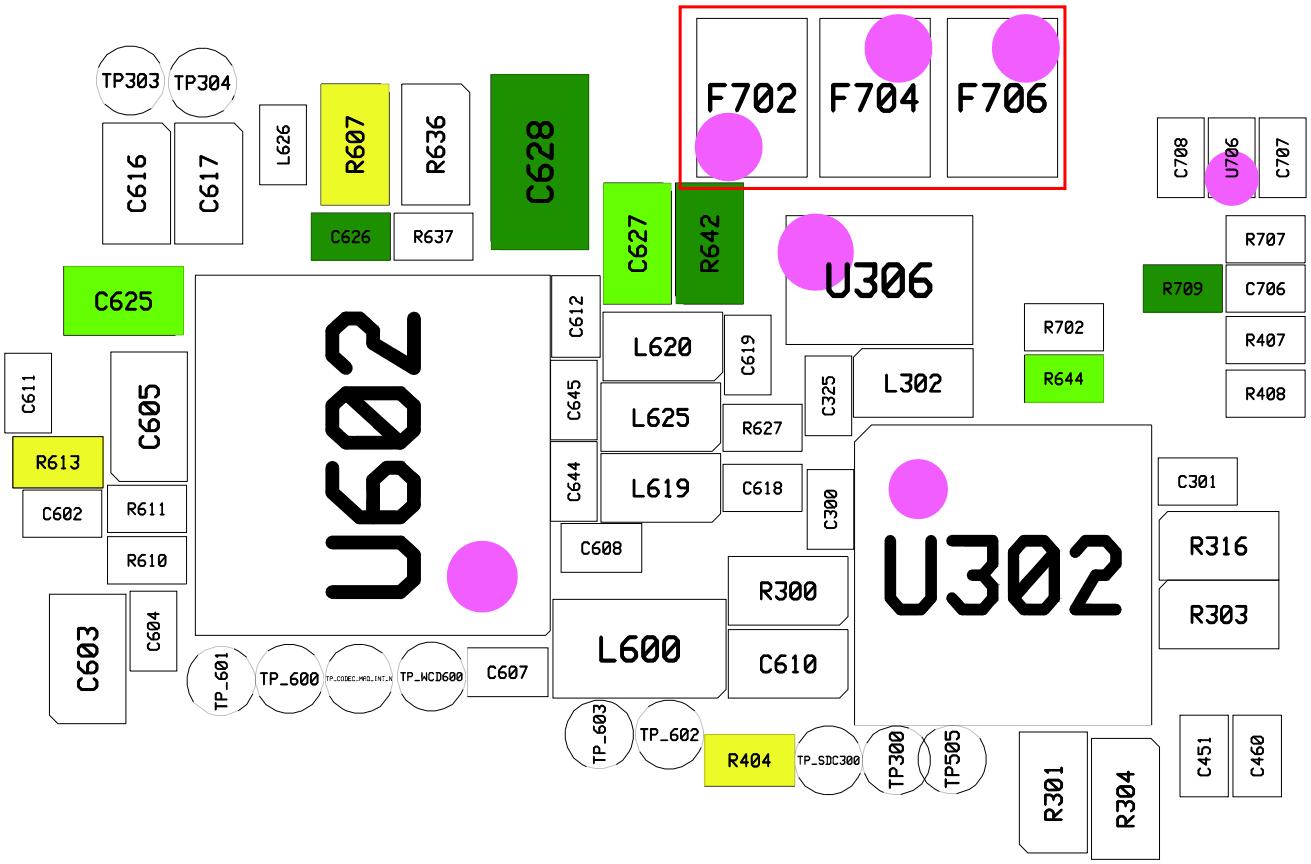




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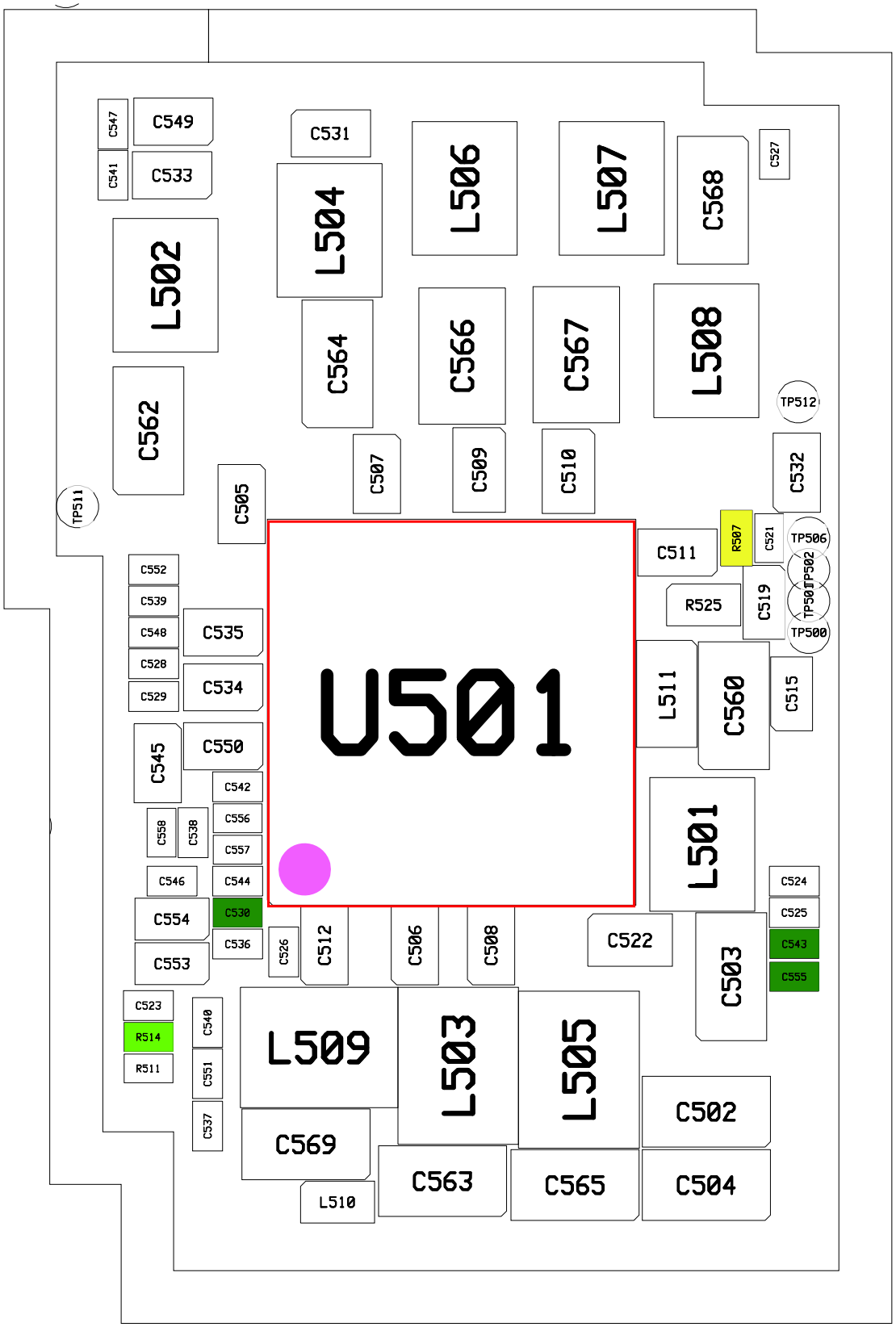




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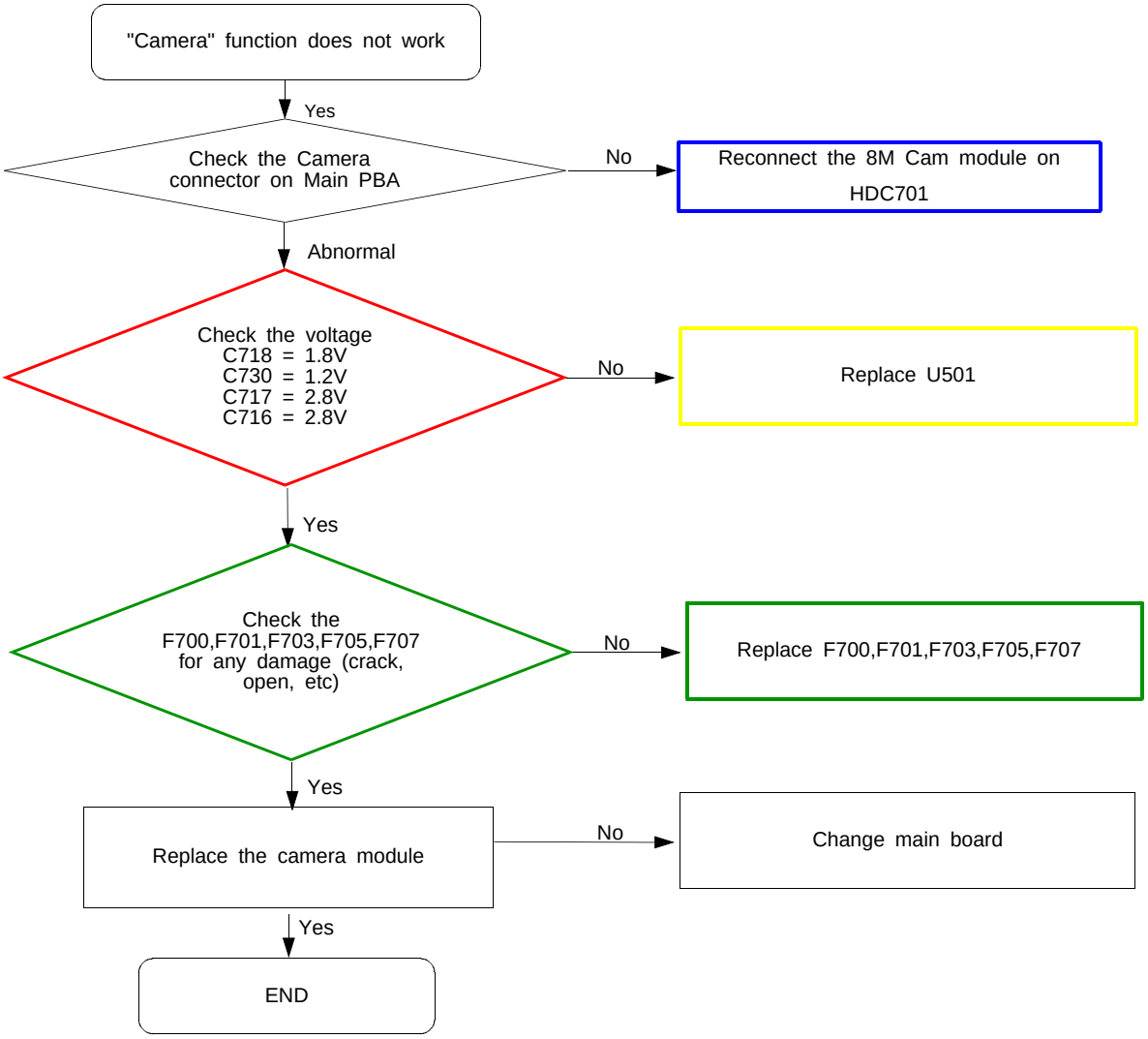
## 8-3-12. 8M CAM



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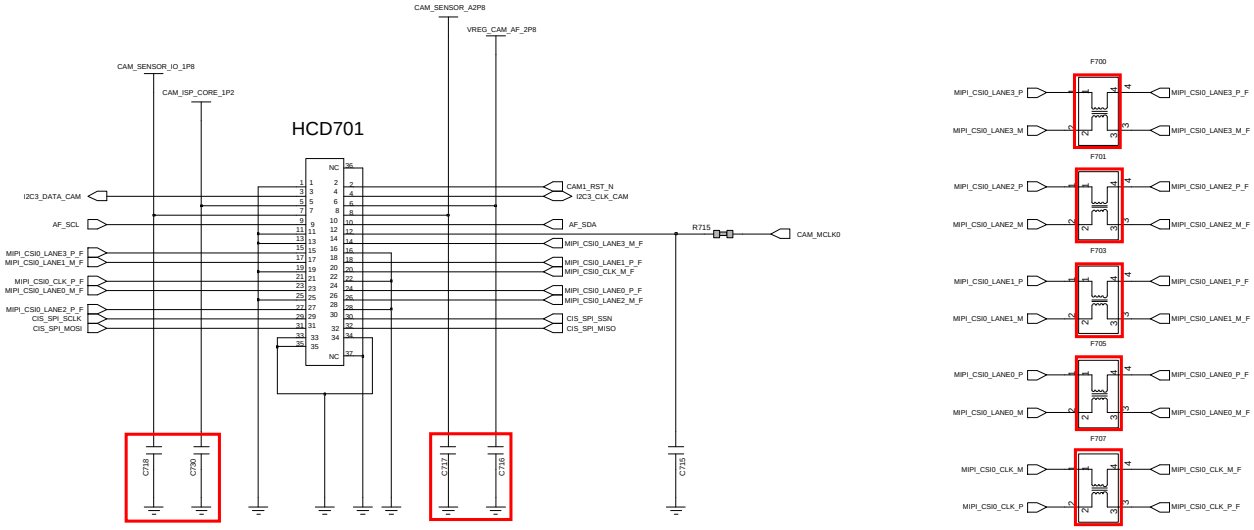


8M AF CAM



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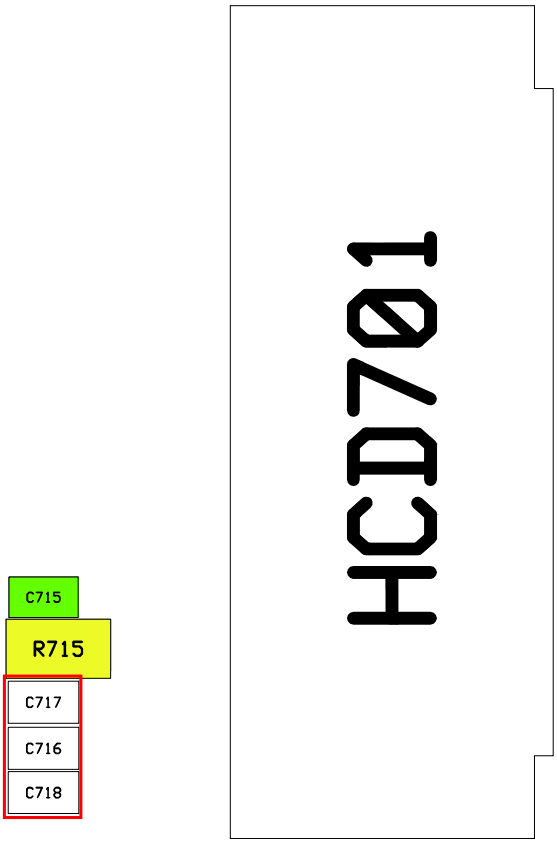


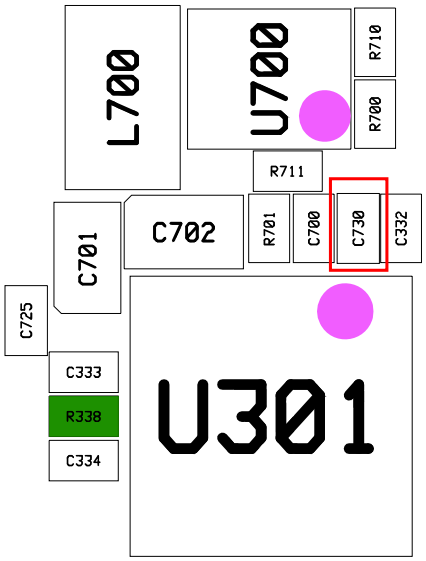




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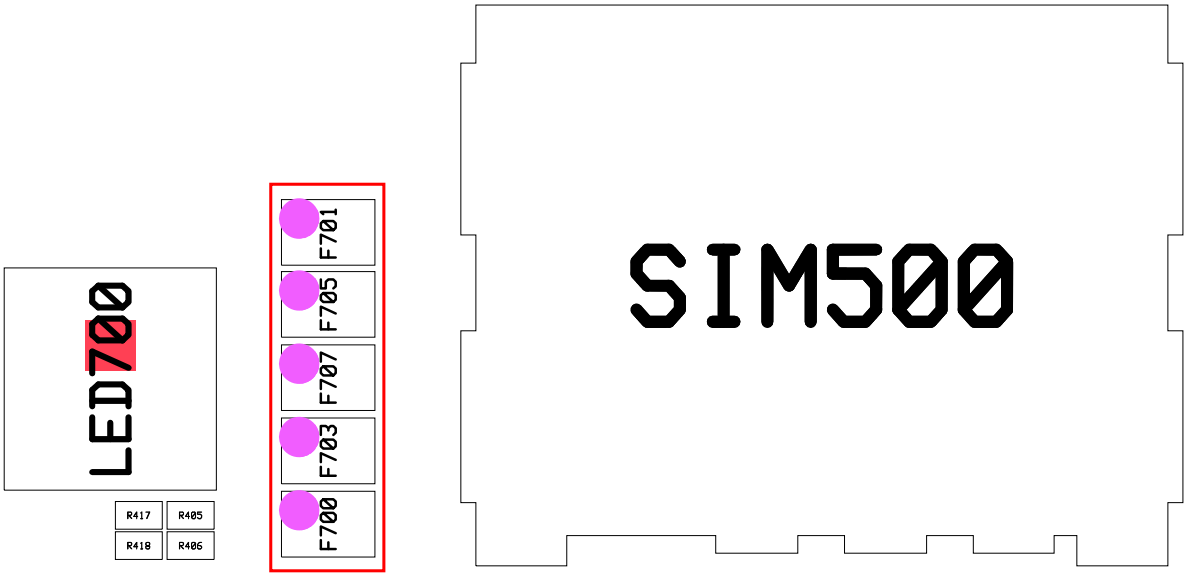




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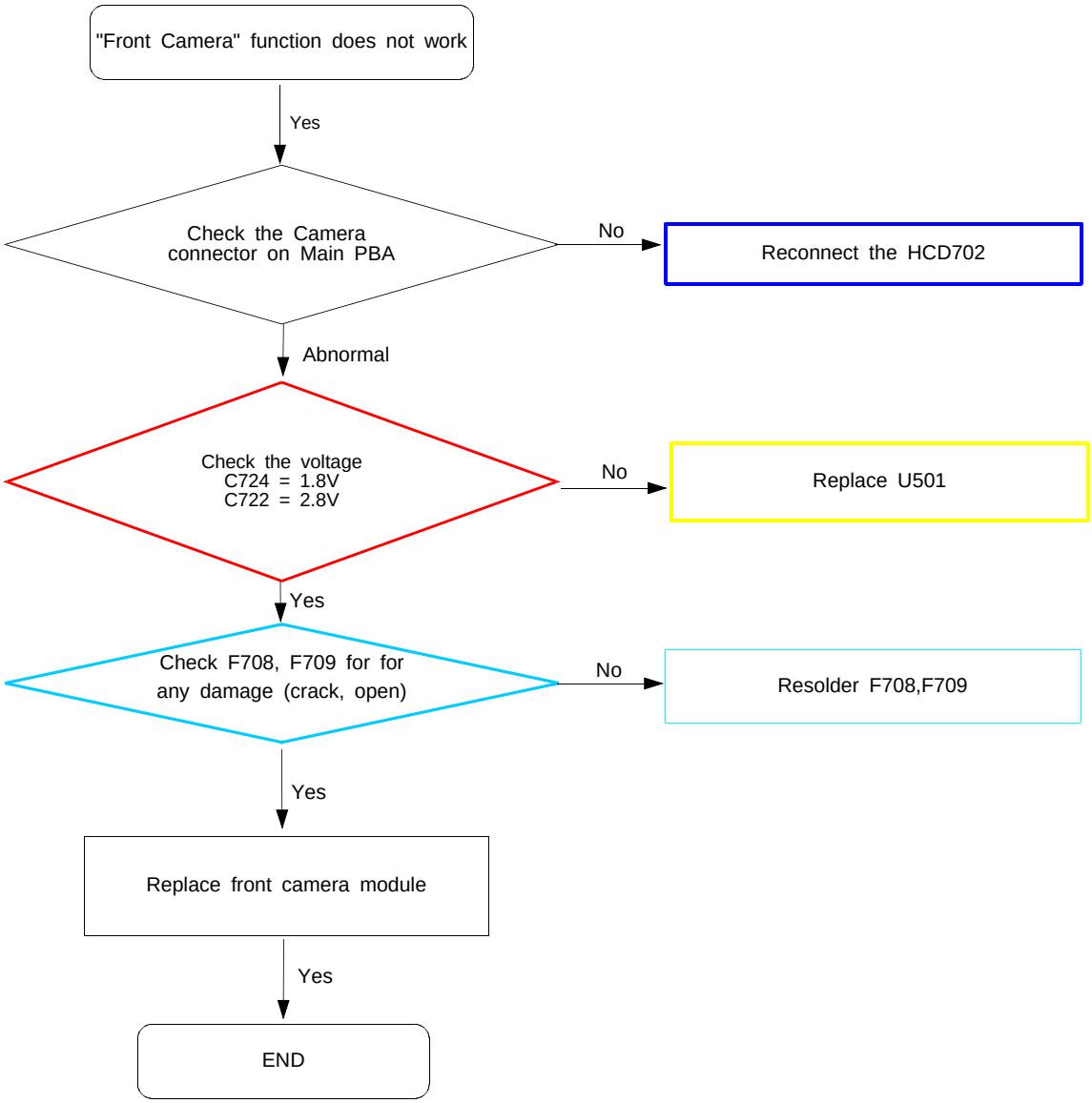
## 8-3-13. VT CAM



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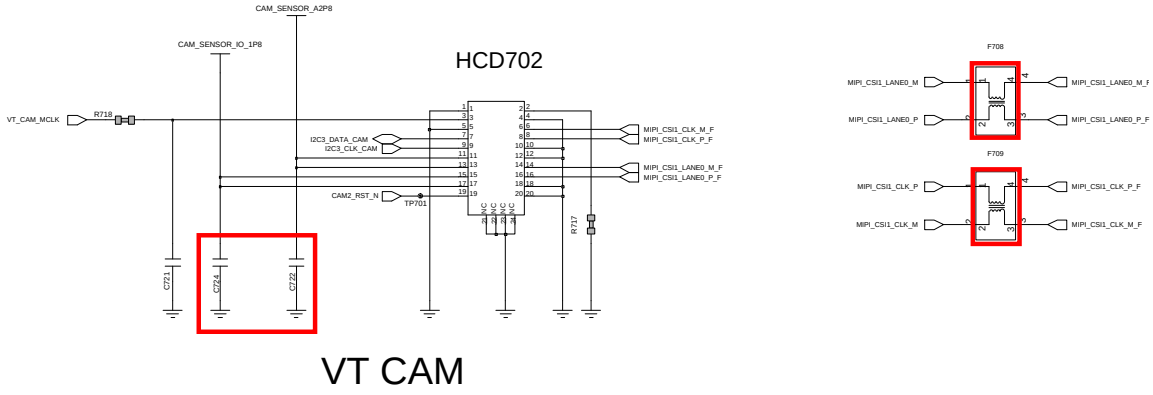
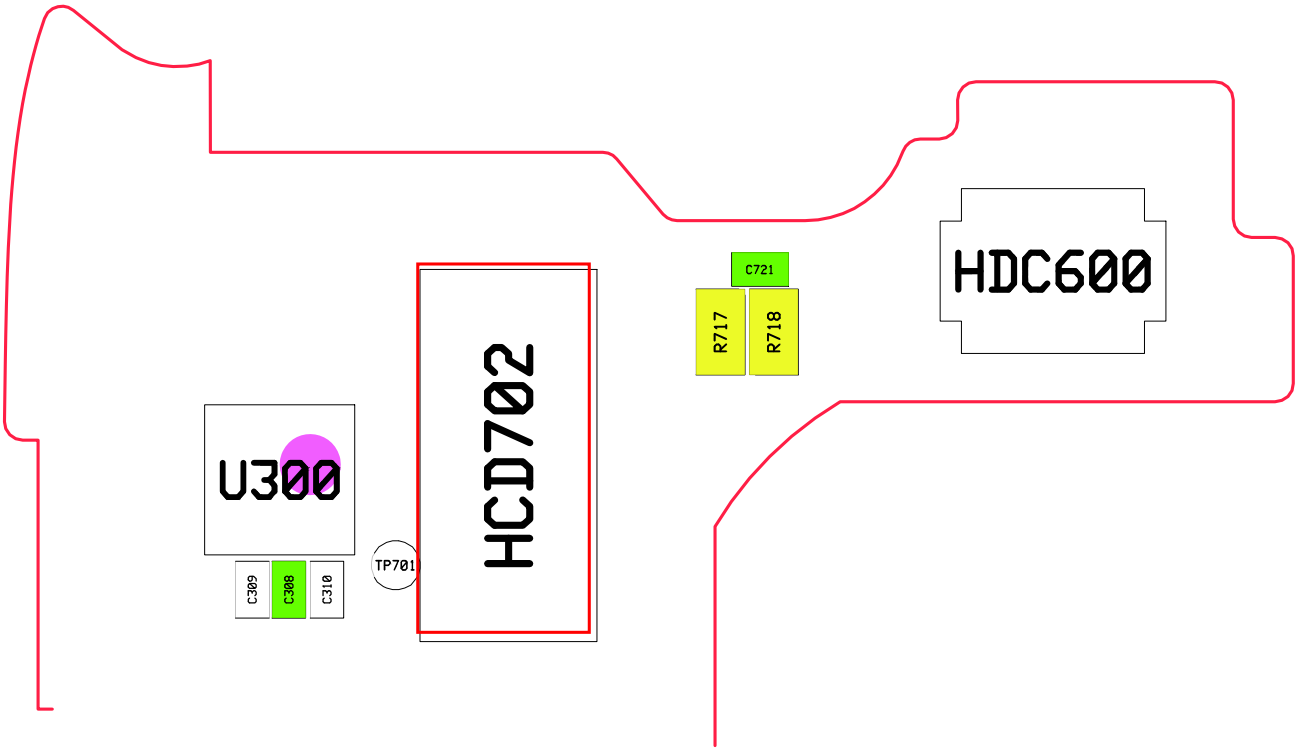



VT CAM



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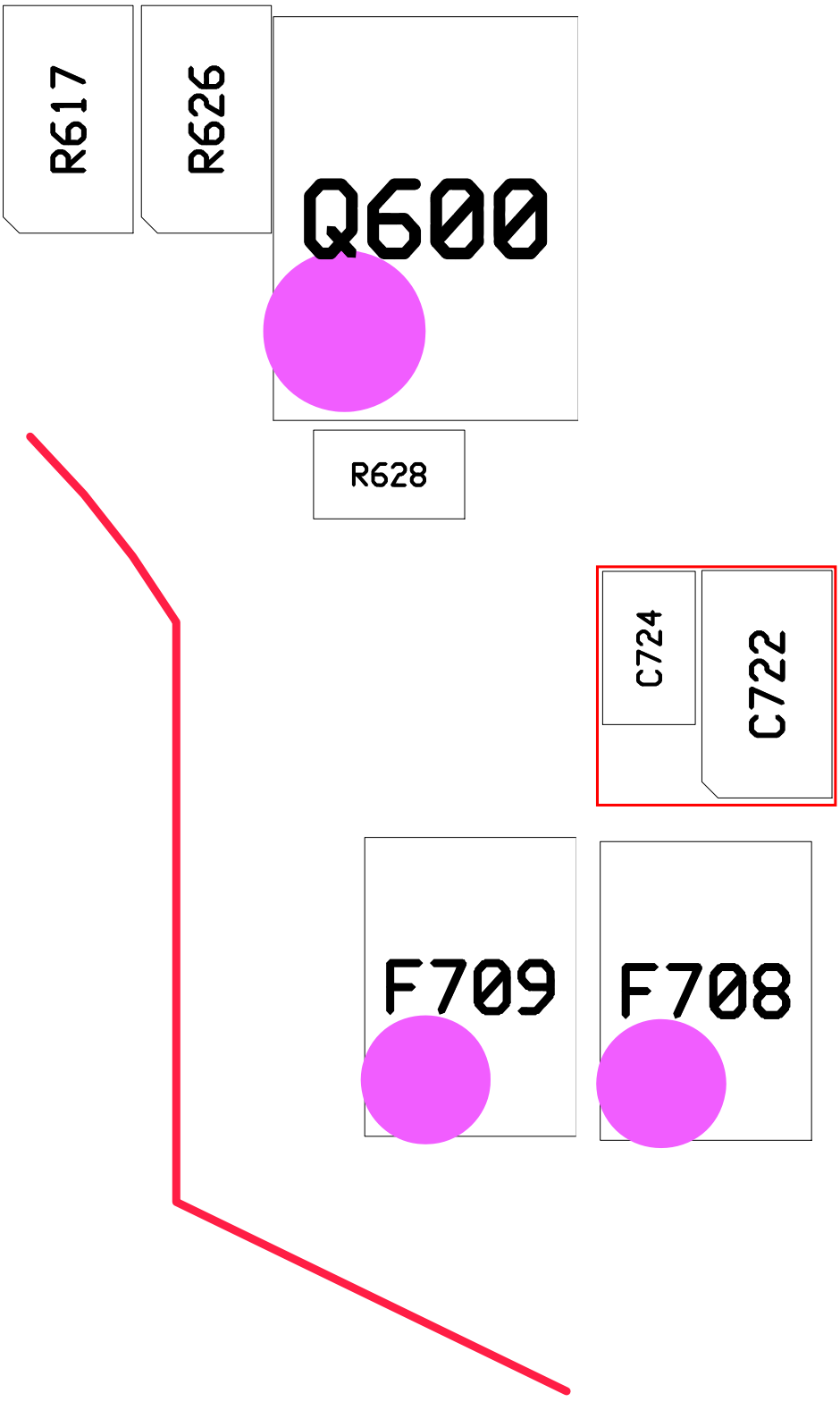




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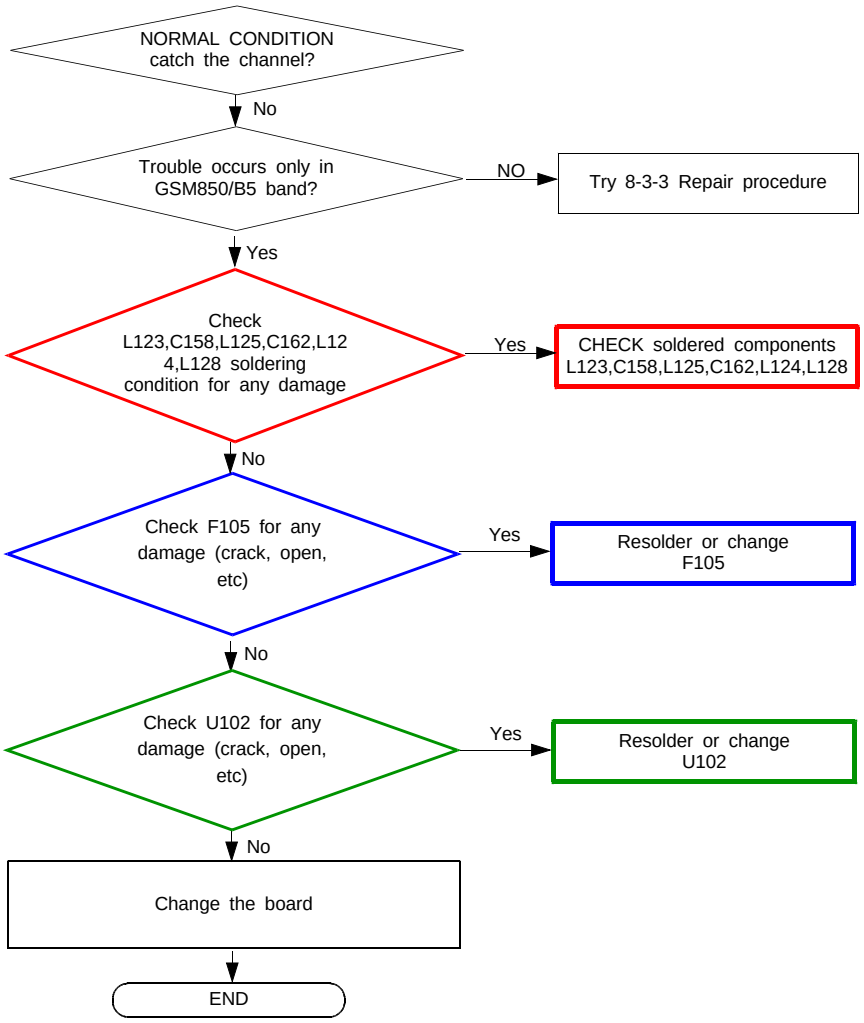
## 8-3-14. GSM850/B5



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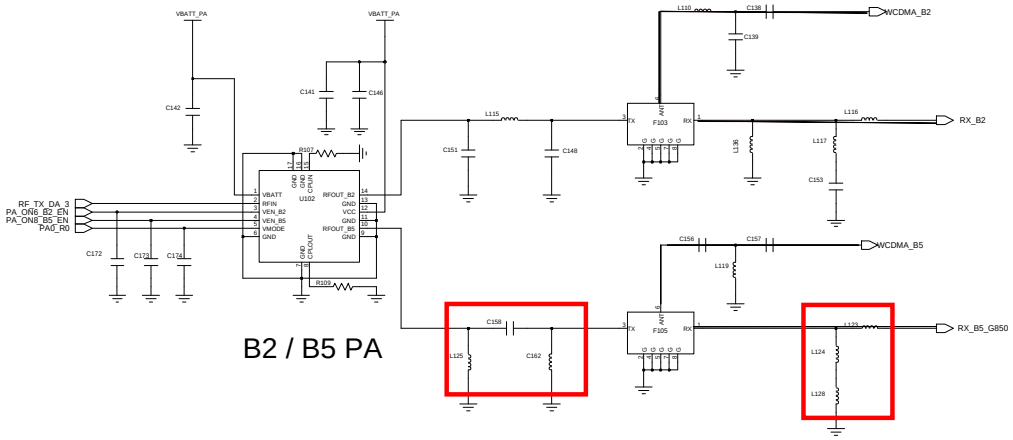
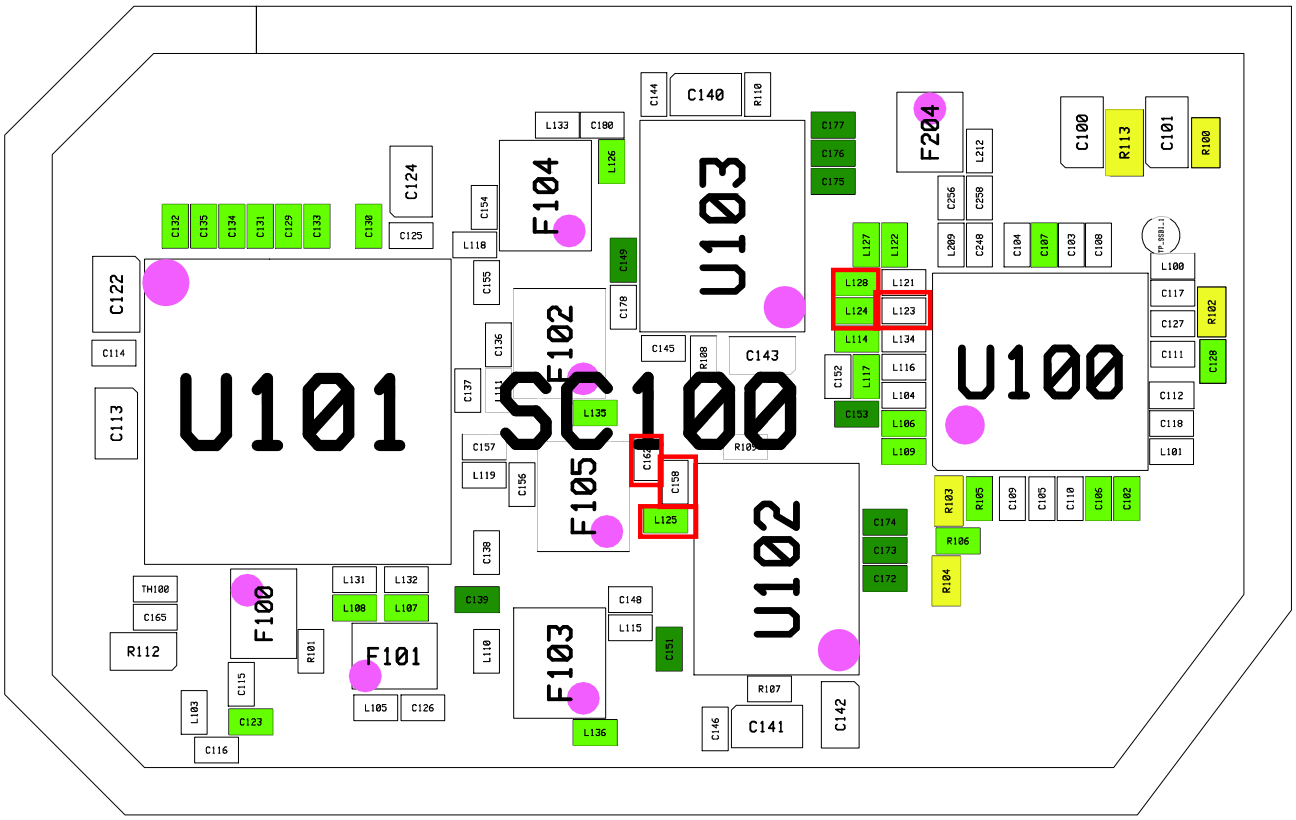



B2 / B5 PA



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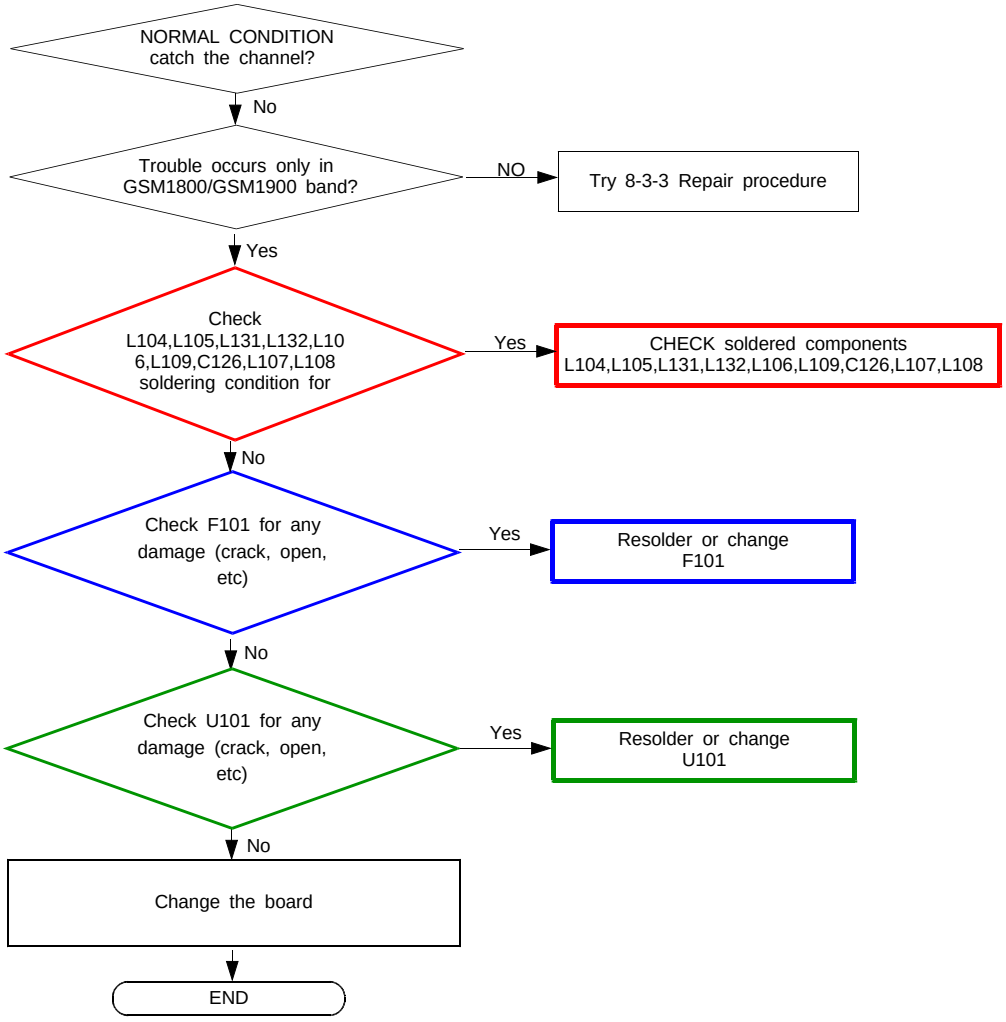
## 8-3-15. GSM1800/GSM1900 RX



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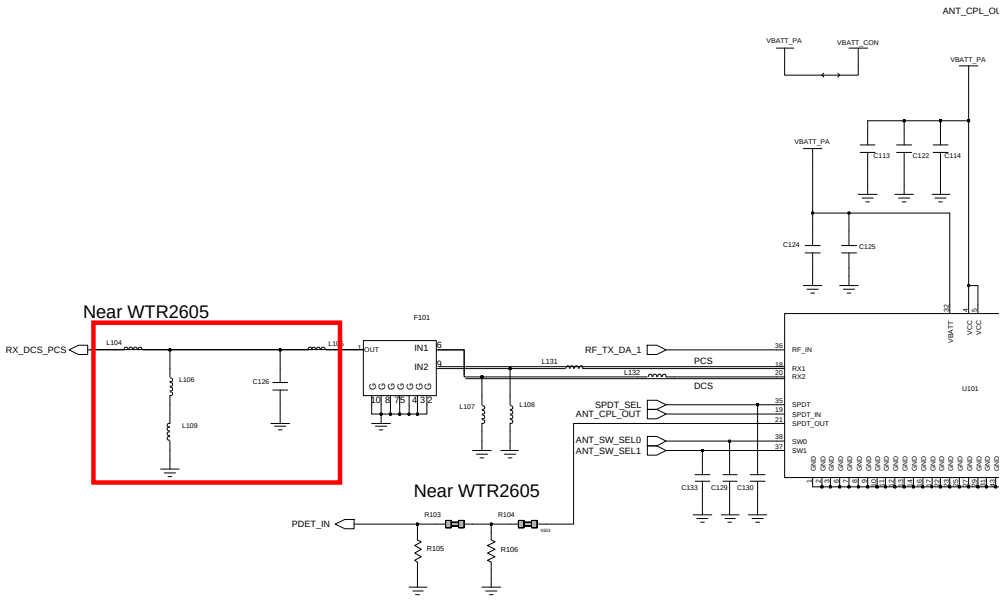


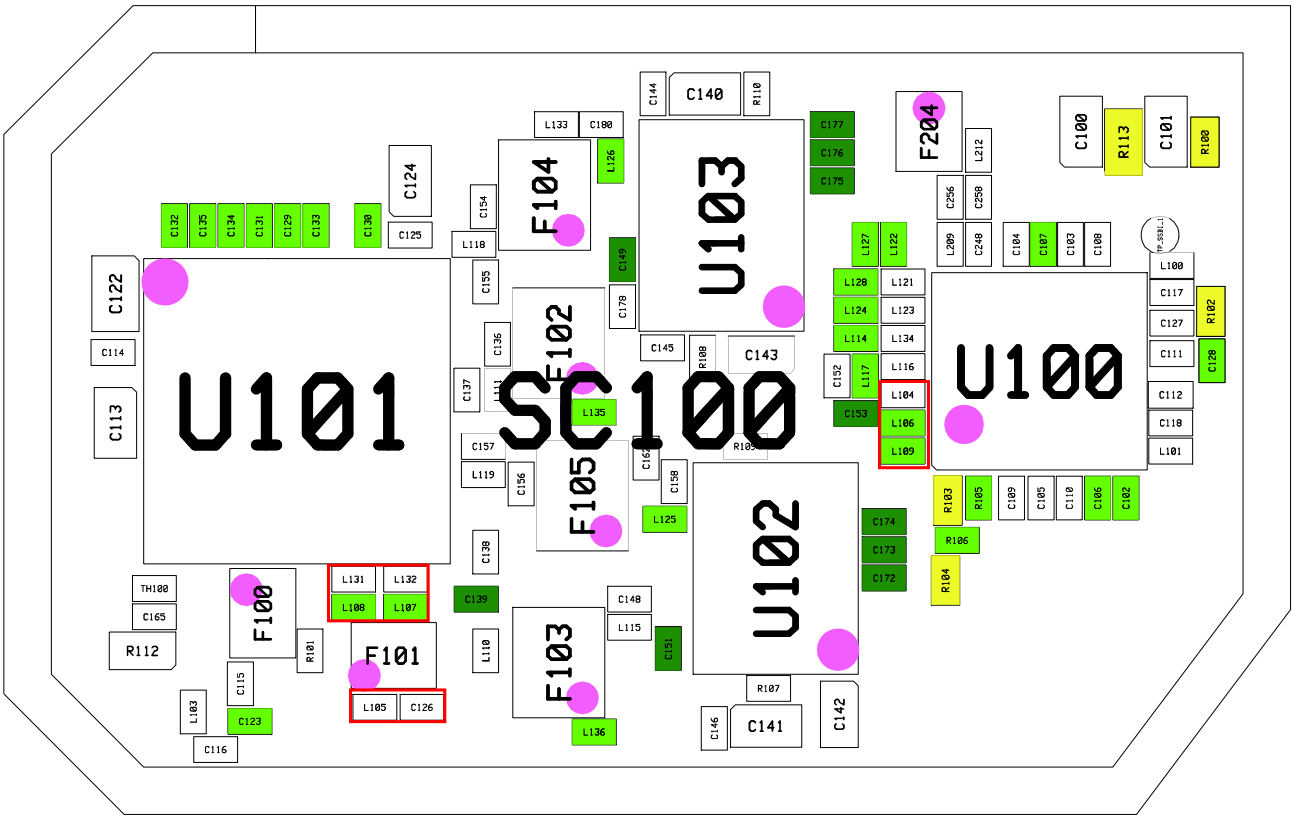




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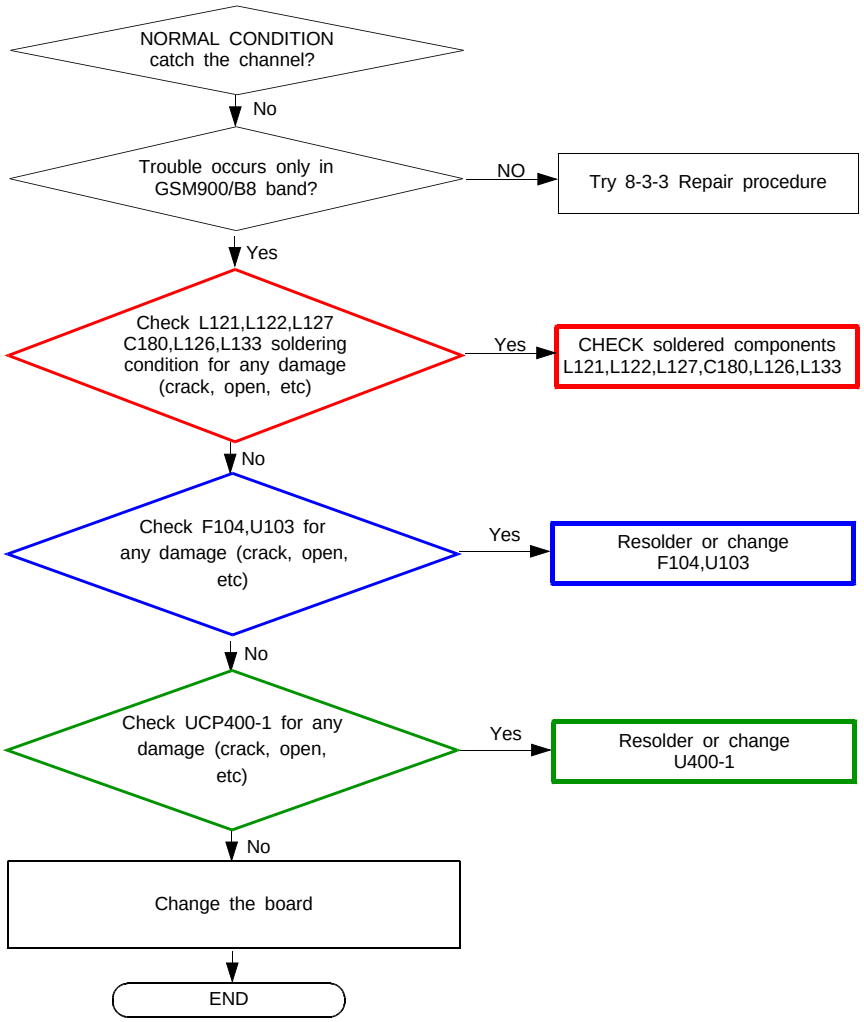
## 8-3-16. GSM900/B8



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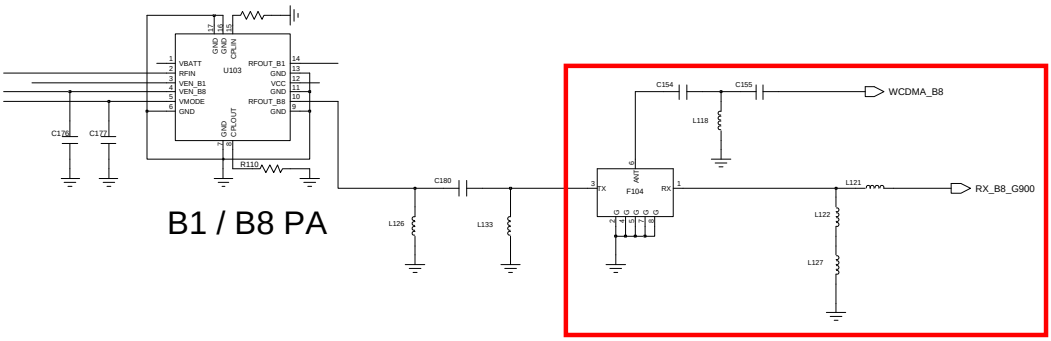


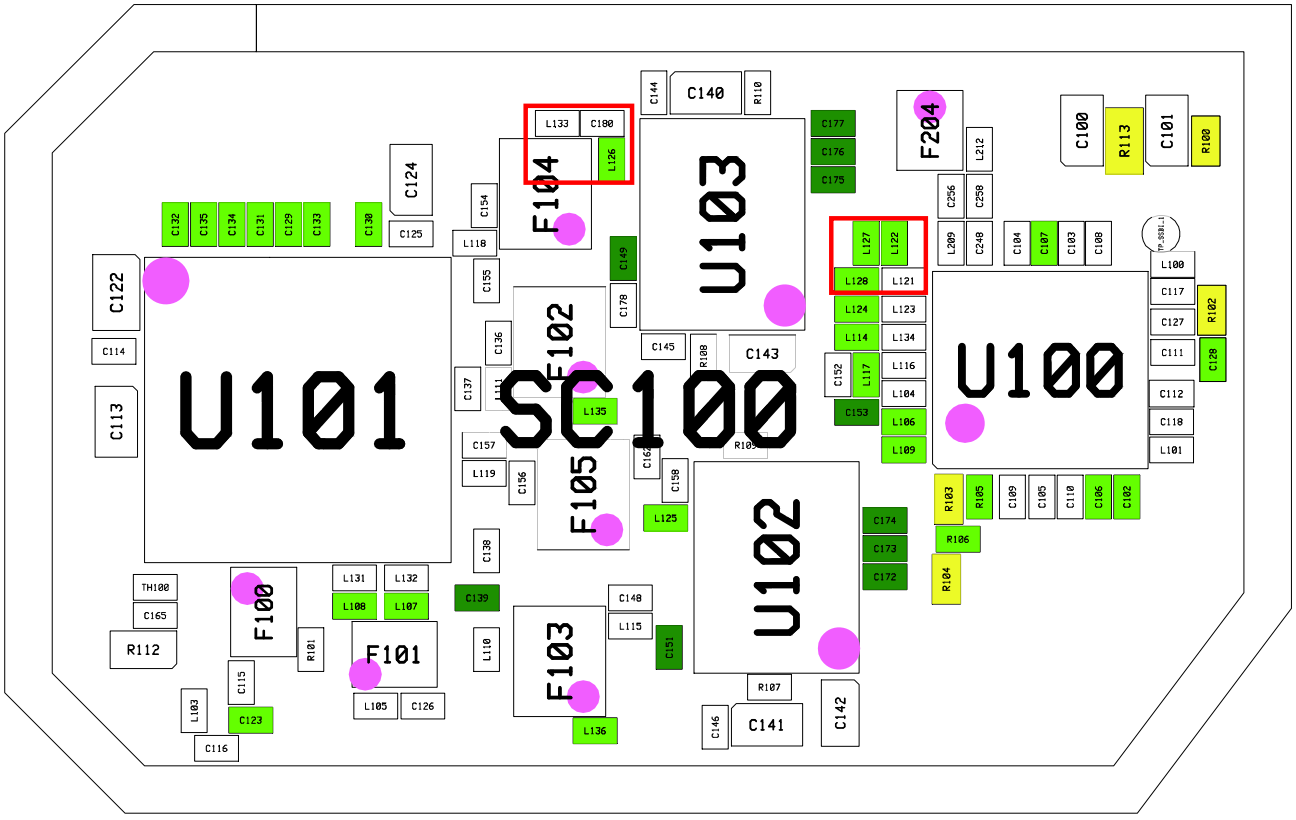




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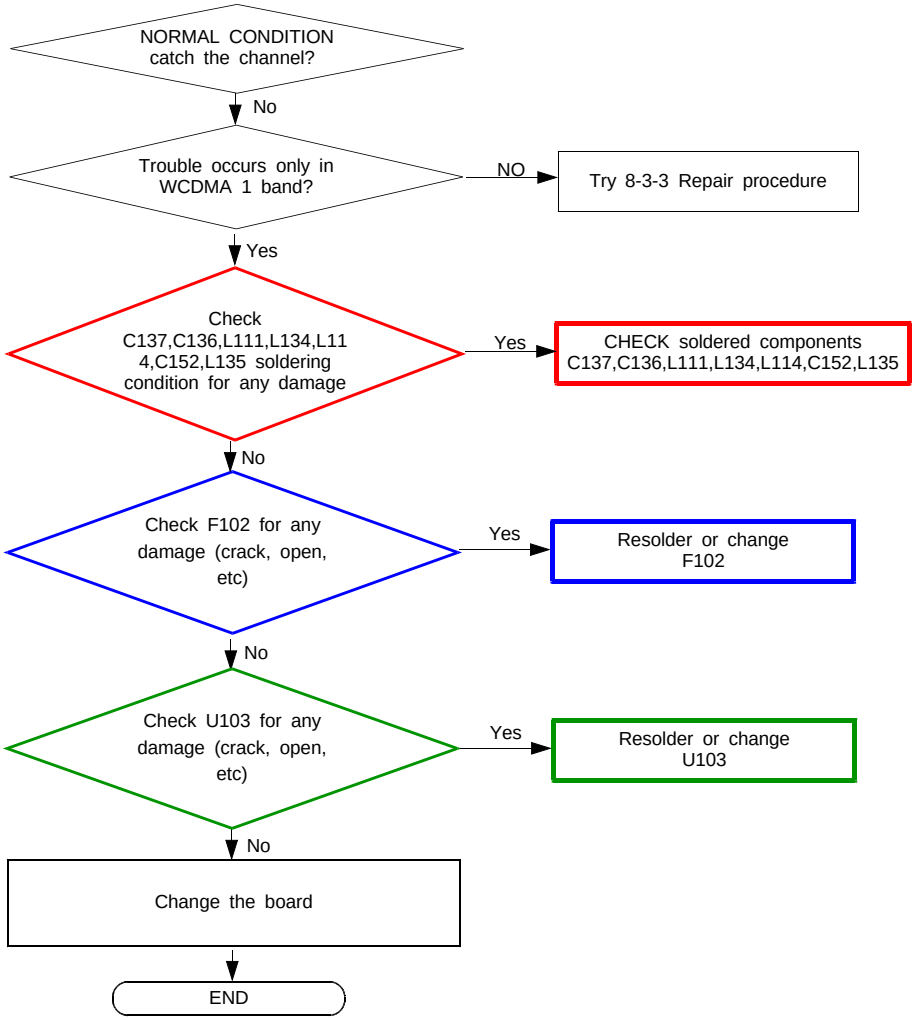
## 8-3-17. WCDMA BAND1



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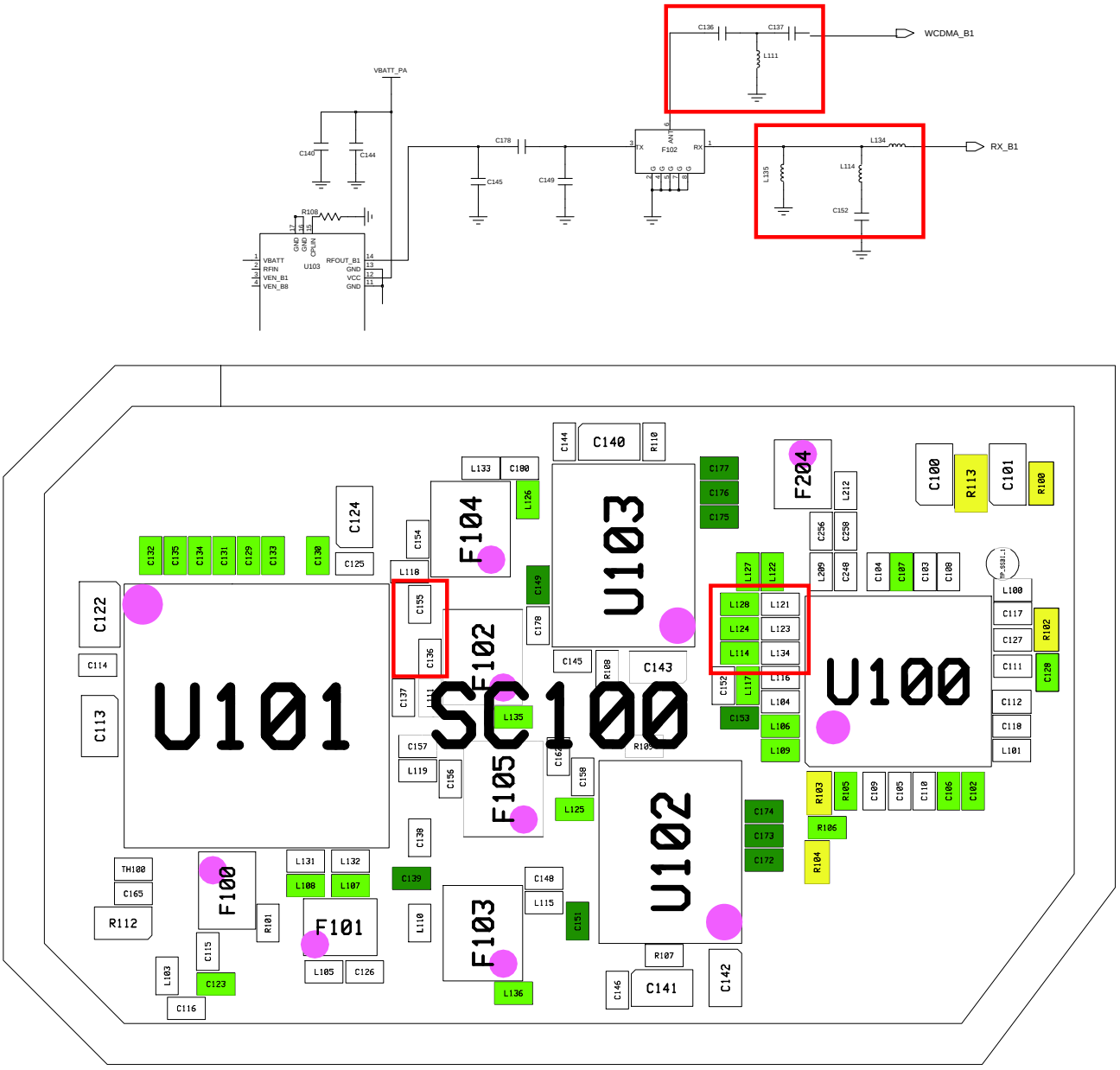




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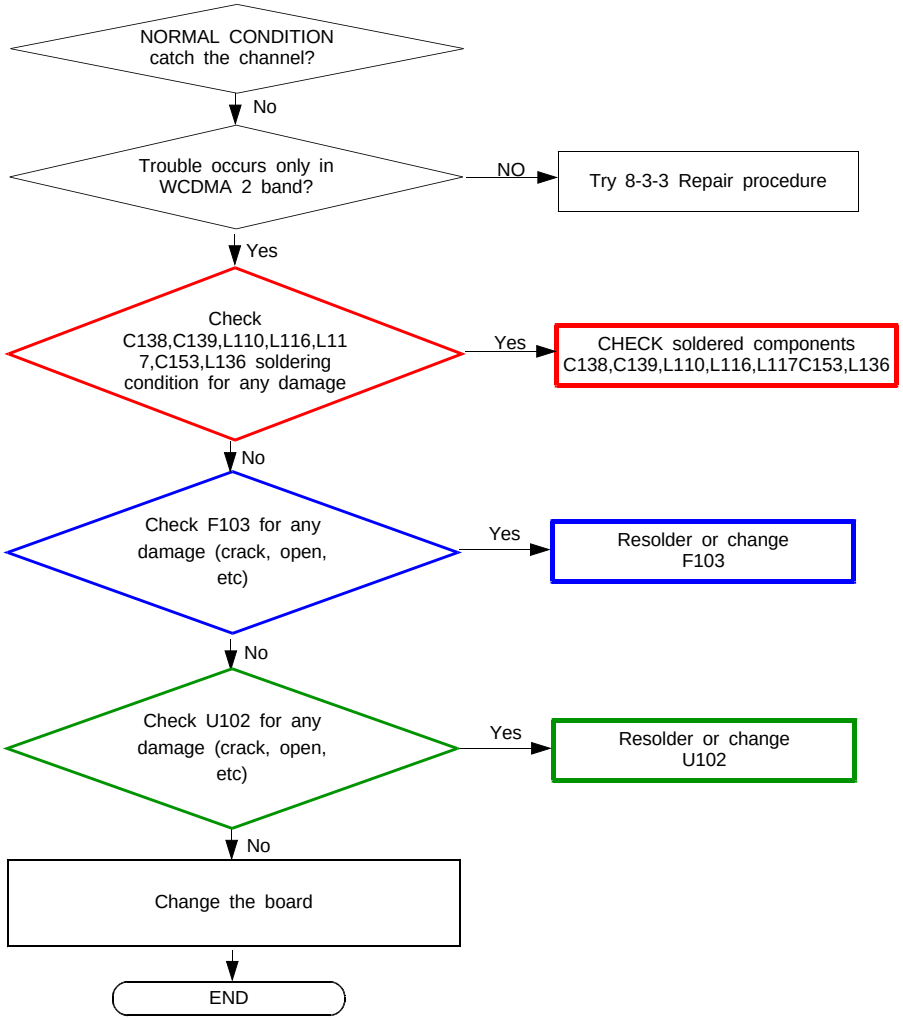
## 8-3-18. WCDMA BAND2



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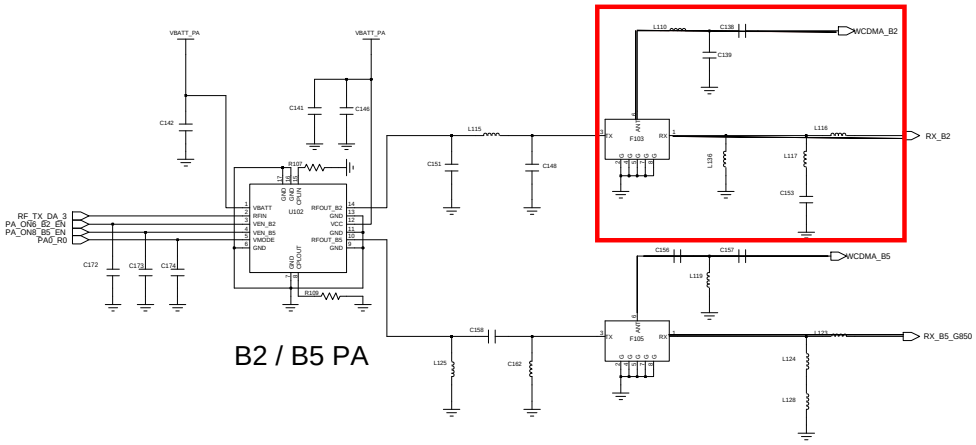
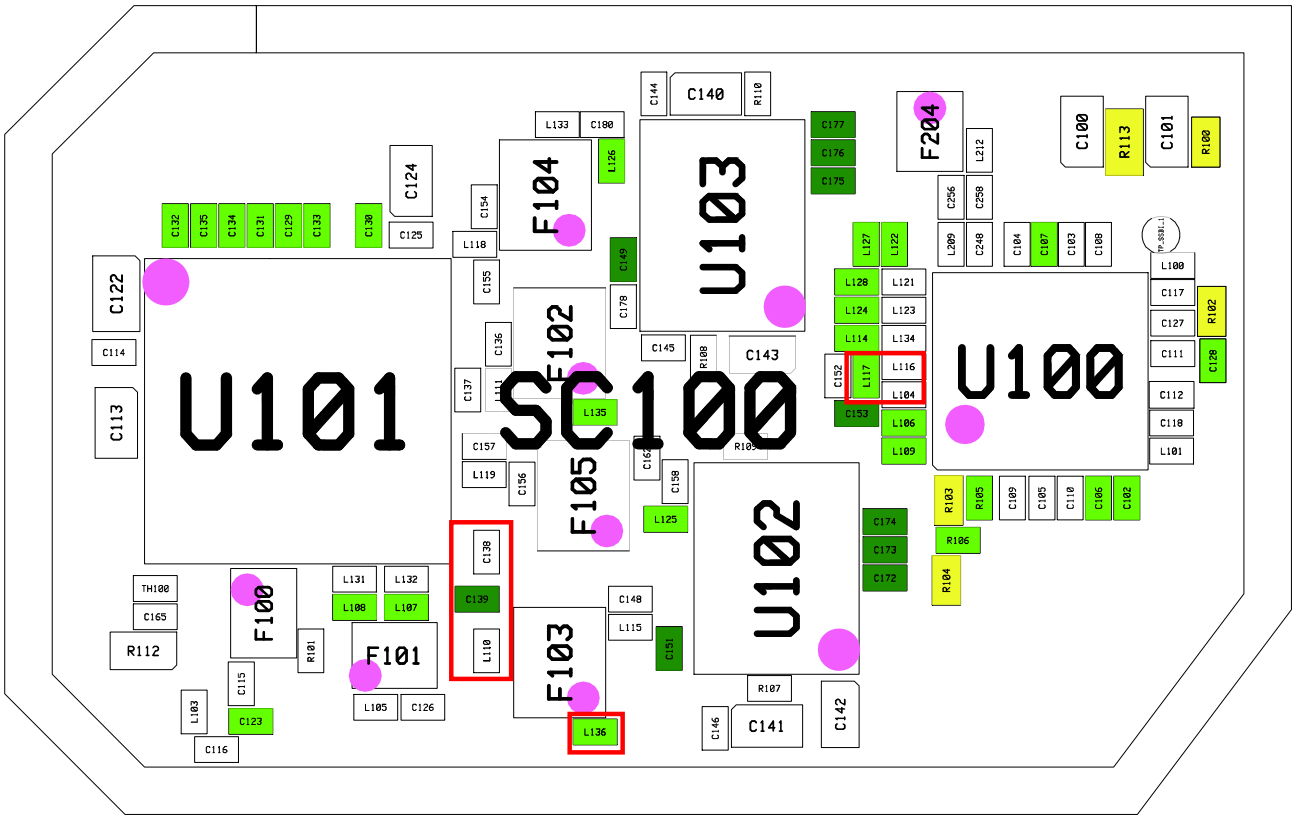



B2 / B5 PA



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